

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES (CIMS DEPARTMENT) PROJECT: SEELING CHANNEL IMPROVEMENTS - PHASE I

ADDENDUM NO. 4

DATE: August 29, 2012

This addendum shall be included in and be considered part of the plans and specifications for the above named project. The contractor shall be required to sign an acknowledgment of the receipt of this addendum at the time he receives it.

Addendum No.4 is issued to add provide answers to the written questions received, and to update the Plans, Specifications and Bid Proposal. The attached documents should be used in place of the documents of the same title found within the plans and Project Manual.

- 1. Pre-Bid Q&A Session Questions and Answers
 - a. A copy of the Questions and Answers from the Pre-Bid Q&A held on August 21, 2012 is included in this addendum.
- 2. 010 Invitation for Bids (IFB) and Contract Signature Page
 - a. After August 24, 2012, the Plans, Specifications and Special Conditions may be purchased at AECOM, **112** E. Pecan, Suite 400, San Antonio, TX 78205.
- 3. 025 Unit Pricing Form

Revisions made to the Unit Pricing Form 025 have been listed below calling out items modified.

- a) Roadway and Drainage Base Bid
 - i) Items Updated

COSA 554.1 – Erosion Control Matting (Material and Details Updated)

TxDOT 420 2029 – Class S Concrete Slab (Quantity Updated)

TxDOT 420 2033 – Class S Concrete Approach Slab (Quantity Updated)

TxDOT 420 2034 – Class S Concrete Bridge Sidewalk (Quantity Updated)

TxDOT 420 – Class C Concrete Monument (Quantity Updated)

TxDOT 428 2001 – Concrete Surface Treatment Class I (Quantity Updated)

- b) SAWS Sewer Main Base Bid
 - i) Items Removed

850 – Sanitary Sewer Structure – 60"

ii) Items Revised

850 – Sanitary Sewer Structure – 72" (Quantity Updated)

- c) Landscape Base Bid
 - i) Items Updated

PB. 7 – Entry Column Complete Pedestrian Bridge (Sheet Reference Added in S.P. No Column)

VB. 1 – Limestone Stone Veneer (Desc. Code Updated)

VB.8 - Entry Column Complete Monument Walls (Sheet Reference Added in S.P. No Column)

- VB.11 Entry Landscape Beds with Main Entry Plants (Sheet Reference Added in S.P. No Column)
- LM.11– Existing Tree Protection (Units Updated)
- d) This form has been updated to add the amount of Landscape Electrical Base Bid section into the summary section.

4. 040 Bid Form

- a. To clarify the maximum total offer for Item SP.1 Diversion and Care of Water, Bid Form 040 is amended to include "k" to Section 3, to read as follows:
 - (k) The total offer for Item SP.1 Diversion and Care of Water shall not exceed seven percent (7%) of the total project offer. The 7% allowed for the Diversion and Care of Water will be calculated based upon the total of all offer components. An offer containing a total for the Diversion and Care of Water in excess of seven (7%) percent may be considered unbalanced and may be rejected.
- 5. Special Specification 3 Prefabricated Pedestrian Bridge
 - a. 1.2 Pre-approved Manufacturers is modified to add the following: (Please note selected manufacturer will be required to meet all conditions as outlined in the specification provided including the warranty terms)
 - Big R Bridge
 P.O. Box 1290
 Greeley, CO 80632-1290
 1-800-234-0734
 - EXCEL Bridge Manufacturing Co. 12001 Shoemaker Ave.
 Santa Fe Springs, CA 90670 1-800-548-0054
- 6. Typical Channel Sections
 - a. Remove plan sheets 20, 21, and 22. Replace with the revised sheets attached to this addendum.
- 7. General Notes Sheet
 - a. Remove plan sheet 24 and replace with the revised sheet attached to this addendum.
- 8. Summary of Bid Items
 - a. Remove plan sheets 26, 27, and 27a. Replace with the revised sheets attached to this addendum.
- 9. Erosion Control Products Standards Details & Notes
 - a. Remove plan sheet 173 and replace with the revised sheet attached to this addendum.
- 10. S. Josephine-Tobin Dr Bridge
 - a. Remove the following plan sheets and replace with the revised and attached sheets:
 - 224A Quantity Summary S. Josephine-Tobin Dr.
 - 232 Slab Layout S. Josephine-Tobin Dr.
- 11. Wilson Blvd. Bridge
 - a. Remove the following plan sheets and replace with the revised and attached sheets:
 - 239 Bridge Layout Wilson Blvd.
 - 240 Summary of Quantities Wilson Blvd.
 - 243 Prestressed Concrete Slab Beam Spans (TY SB12) Wilson Blvd.
 - 244 Bridge Approach Slab Asphaltic Concrete Pavement Wilson Blvd.
- 12. Woodlawn Ave. Bridge
 - a. Remove the following plan sheets and replace with the revised and attached sheets:
 - 245 Bridge Layout Woodlawn Ave.
 - 246 Bridge Construction Sequence Woodlawn Ave.
 - 247 Summary of Quantities Woodlawn Ave.
 - 248 Abutment #1 & #3 Details Woodlawn Ave.
 - 249 Interior Bent #2 Details Woodlawn Ave.
 - 250 Prestressed Concrete Slab Beam Spans (TY SB15) Woodlawn Ave.

- 13. Landscape Details/ Woodlawn Lake Park Details
 - a. Remove the following plan sheets and replace with the revised and attached sheets:
 - 405 (LS2.4) Sitework Details
 - 421 (LP 2.1) Planting List and Details
- 14. SAWS Sanitary Sewer Replacement Details
 - a. Remove the following plan sheets and replace with the revised and attached sheets:
 - Summary Quantity Sheet- Sanitary Sewer (5 of 15)
 - Sanitary Sewer Plan and Profile Line "A" Sta 9+88 to Sta 13+50 (6 of 15)
 - Sanitary Sewer Plan and Profile Line "A" Sta 17+50 to Sta 20+53 (8 of 15)
- 15. Addendum No. 4 Acknowledgement Form
 - a. A copy of the Addendum No. 4 Acknowledgement Form is included. Please complete and sign the form and include with the bid package to acknowledge receipt of Addendum No. 4.

ATTACHMENTS

- Pre-Bid Q&A Session Questions and Answers
- Revised 025 Bid Form- Unit Pricing Form
- Construction Plan Sheets:
 - o 20, 21, 22 Typical Channel Sections
 - o 24 General Notes Sheet
 - o 26, 27, and 27a Summary of Bid Items
 - o 173 Erosion Control Products Standards Details & Notes
 - o 224A Quantity Summary S. Josephine-Tobin Dr.
 - o 232 Slab Layout S. Josephine-Tobin Dr.
 - o 239 Bridge Layout Wilson Blvd.
 - o 240 Summary of Quantities Wilson Blvd.
 - o 243 Prestressed Concrete Slab Beam Spans (TY SB12) Wilson Blvd.
 - o 244 Bridge Approach Slab Asphaltic Concrete Pavement Wilson Blvd.
 - o 245 Bridge Layout Woodlawn Ave.
 - o 246 Bridge Construction Sequence Woodlawn Ave.
 - o 247 Summary of Quantities Woodlawn Ave.
 - o 248 Abutment #1 & #3 Details Woodlawn Ave.
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 - Sanitary Sewer Plan and Profile Line "A" Sta 17+50 to Sta 20+53 (8 of 15)
- Addendum Acknowledgement Form



Stephanie D. Blew, PE

Date

8/29/2012

AECOM 6800 Park Ten Boulevard Suite 180S San Antonio, Texas 78213 www.aecom.com 210.296.2000 tel 210.296.2165 fax

Addendum No. 4 Questions & Answers

- Q1. Can we get a detail of what SAWS is asking for on the 60", 72", and 90" manhole structures?
- A1. Addendum 1 revised bid item 850 Sanitary Sewer Structure from 90" to 96". SAWS Standard Specification for Construction Item No. 850 includes a detail for a Sanitary Sewer Structure for 72" and 96". Addendum 4 revises the SAWS Plans to remove the 60" sanitary sewer structures and replace them with 72" sanitary sewer structures.
- Q2. Can you define how "low bidder" will be determined?
- A2. Base bids will be considered first to make sure sufficient funding is available. Additive alternatives will be considered in numerical order, including as many as funding will allow. New landscape and electrical items were divided into base bid and additive alternative bid items.
- Q3. What is the difference between the pay items on sheet 27a "PB.11" and "PB.12"? These two pay items do not correspond with the COSA form 025 "PB.11 Pedestrian Bridge Steel Tube" and "PB.12 Pedestrian Bridge Steel Frame".
- A3. Addendum 4 revises Sheet 27a to match the revised 025 Unit Pricing Form for these bid items.
- Q3.1 How will the additional weight for the additive items be addressed? Will the bridge designer need to prepare four different designs and prices?
 - A3.1 The insert, tube, and frame are one combined option (Alternate 1A). The bridge should be priced as follows: the pedestrian bridge included in the base bid (Base Bid item SP.3) and Additive Alternate 1(Additive Alternative #1 Items PB.9 PB.13). The bridge should be designed for the ultimate loading condition, which includes Alternate 1A. The weight of Panel B (Center) is estimated to be 1800 lbs, the weight of Panel A is estimated to be 1600 lbs. In addition please note to contractor that the additional bridge panels will be design build; therefore shall be coordinated and sealed shop drawings issued from the selected bridge manufacture prior to fabrication.
- Q4. Can the bid date be extended and the question deadline be extended as well?
- A4. Addendum 2 extended the deadline for questions to Thursday August 28, 2012. Addendum 3 extended the bid proposal deadline to September 11, 2012.
- Q5. Is there any way to have another pre bid meeting so the contractors can ask question to the engineer instead of trying to ask in writing?
- A5. Addendum 2 added another questions and answer session with the project team on Tuesday, August 21, 2012.
- Q6. Can you explain the discrepancies on the bid form items Add Alt. #1 PB9-PB12? They are different than the plans show.
- A6. Sheet 27a is updated with this Addendum 4.
- Q7. Can you tell us what page shows the Glass lithocrete banding detail?
- A7. A plan view is shown on sheet LS 1.6 Detail 2 and it is also called out in Detail 2 on sheet LS2.6. The bridge profile will be developed by the bridge manufacturer with the 6" concrete slab. The slab includes the banding according to the hatching on the plan view. Lithocrete suppliers can provide cut sheets for the material which does require special installation.

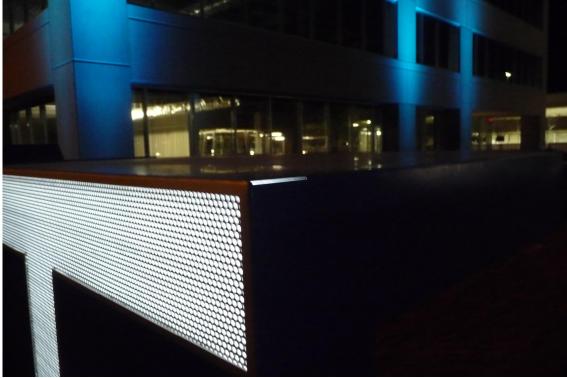


- Q8. Addendum No 1 indicates changes to various items which I did not find anything that changed. The ones which I did not find changes were:
 - 852-60" manhole extra depth
 - 833- Existing meter & existing meter box relocation
 - 833- Meter box
 - PB.10 PEDESTRIAN BRIDGE STEEL INSET
 - PB.11- PEDESTRIAN BRIDGE STEEL TUBE
 - PB.12- PEDESTRIAN BRIDGE STEEL FRAME
 - PB.13- GLASS LITHOCRETE BANDING
 - PI.3- UNDER VECHICULAR BRIDGE LIGHT
 - PI.4 NEW BEGA POLE LIGHT
- A8. The quantities for items 852-60" manhole extra depth, 833-Existing meter & existing meter box relocation, and 833- Meter box did not change with Addendum #1.
 - Items PB.10, PB.11, and PB.12 were included in the changes because they shifted from Alternate 1B to Alternate 1A.
 - Item PB.13 was included because the specification number was added.
 - Item PI.3 and PI.4 were included because their item numbers changed to PI.2 and PI.3, respectively.
- Q9. Quantities in the bid tab are shown as whole numbers but the cell of the file may be extend up to 9 decimal points.
- A9. The 025 bid tab form is corrected with this Addendum 4.
- Q10. The bid total summation needs to include the new "Landscape Electrical Base Bid "
- A10. The bid total summation on Unit Pricing Form 025 is updated with this Addendum 4.
- Q11. Page 404 VB.3 & VB.4 need clarification on which items gets paid where?
- A11. VB.3 refers to the light fixture, conduit and light housing on the monument; VB.4 refers to the entry tower monument (sculpture), footing, and wall with limestone stone veneer. They are two separate pay items.
- Q11.1 PB.2 is listed on the base bid in one place but additive alternate elsewhere. Can you clarify?
- A11.1 Item PB.2 is concrete banding using plain concrete (tool joint) of a color and finish in accordance with landscape material schedule M.7 (sheet 375); the additive alternate #1 item PB.13 upgrades the banding to add a lithocrete finish in accordance with SPECIFICATION 321316.15-4.
- Q11.2 Can the vehicular bridge and monument items VB.1 and VB.2 be clarified?
- A11.2 VB.1 is the limestone stone veneer, and VB.2 is the cast stone cap. The description code shown in the Unit Pricing Form for item VB.1 is updated to refer to landscape and material schedule item S.1 with this Addendum 4.
- Q12. Can the City reconsider the 2% max for the Diversion & Care of Water?
- A12. The percentage for care of water is revised with this Addendum.
- Q12.1 Would the City allow a cofferdam on the west side of the new vehicular bridge and one on the east side of the existing Josephine-Tobin Bridge with pipes underneath (or other consideration for drainage) to allow for construction work on both bridges?
- A12.1 The City would not object to this approach provided erosion and siltation are addressed appropriately.
- Q13. Page 405 Aluminum letters call for a corrugated face with a 4" return. Can we get a larger detail and is the return and the corrugated face a continuous weld?



A13. Aluminum letters are to be perforated and not corrugated. The letters do not need to be a continuous weld, but there needs to be some sort of waterproofing protection. Photos of an example perforated sign face are provided below. On past projects they have been produced by sign manufacturers. Sheet LP2.4 is updated in this Addendum 4.







- Q14. Can the landscaping quantities be clarified? Specifically the Entry Landscape Bed and Main Entry Plants item VB.11.
- A14. Sheet LP2.1 is updated to provide additional information for the number of each kind of plant in this Addendum 4.
- Q15. Can the bid date be extended until September 11, 2012 due to the TXDOT letting (Sept. 5-6) and being the day after Labor Day?
- A15. Addendum 3 revised the bid date to September 11, 2012.
- Q16. Slab quantities on all three bridges appear to be wrong. Can you verify?
- A16. Slab quantities have been updated with this Addendum 4.
- Q17. Bridge Sidewalk quantities on all bridges appear to be wrong. Can you verify?
- A17. Bridge Sidewalk quantities have been updated with this Addendum 4.
- Q18. Is the concrete surface treatment only on slab and approach slab? If so the quantities appear to be wrong. Can you verify?
- A18. Concrete Surface Treatments are required on all bridge surfaces including sidewalk and rails, quantities have been updated with this Addendum 4. (Note rails quantities were not included for areas receiving limestone stone veneer)
- Q19. Rail on bridges appear to be wrong. Can you verify?
- A19. Rail quantities are correct as shown.
- Q20. Do the approach slabs go under the sidewalk? If so the quantities appear to be wrong.
- A20. Yes, approach slab quantities have been updated with this Addendum 4.
- Q21. Can you verify all bridge slab and bridge sidewalk depths?
- A21. Bridge and sidewalk depths are correct as shown.
- Q22. On the Woodlawn Ave Bridge Abutment details sheet in the quantities box it says 4 columns not 5. Please verify.
- A22. Woodlawn Ave Bridge Abutment details sheets have been revised with this Addendum 4.
- Q23. How is the Pedestrian Bridge supplier to determine the design weight limits if they are unaware of the Additive Alternate the COSA will choose?
- A23. See response to question 3.1 above.
- Q24. Where do the monuments on the Pedestrian Bridge go?
- A24. They should be placed at each of the four corners of the bridge. Sheet 237 includes abutment details with squares representing the monument locations.
- Q25. On the Schedule, page 2, activity 230 the north side of Woodlawn Bridge is being built first. Elsewhere it looks like the south side of the bridge is planned to be built first. Please clarify.
- A25. The north side of the W. Woodlawn Ave. Bridge will be constructed first in accordance with the Traffic Control Plans. Sheet 246 is updated with this Addendum 4.
- Q26. Will the bridges require any special finishes (such as TXDOT paint, surface grinding, etc.) where specific treatments aren't already called out?
- A26. No special finishes will be required.



- Q27. Pay item LM.11 Existing Tree Protection has a quantity of 1,579. The unit of measure is "ea", should this be by "LF"?
- A27. Yes, Unit Pricing Form 025 and Quantity Summary Sheet 27a are updated with this addendum.
- Q28. Special Specification 1 Diversion and Care of Water, Paragraph 3.05A states that there are hydrologic and hydraulic models of existing site conditions available upon request. Can you please make these reports available? We are looking for channel base flows needed to design the diversion.
- A28. The hydrologic and hydraulic models for Seeling Channel do not include a defined base flow.
- Q29. Please clarify the limits of the channel retaining wall concrete and quantities.
- A29. Reinforced concrete associated with the channel walls, bottom slab, upstream and downstream transitions sections have been quantified under bid item COSA 307.1.

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
ROADWAY AND	D DRAINAGE B	ASE BID		•	•				
C	COSA 100.1			MOBILIZATION	LS	1			
С	COSA 100.2			INSURANCE & BOND	LS	1			
С	COSA 101.1			PREPARING RIGHT OF WAY	LS	1			
С	COSA 104.1			STREET EXCAVATION	CY	8361			
C	COSA 105.1			CHANNEL EXCAVATION	CY	18783			
C	COSA 107.1			EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	4137			
C	COSA 108.1			LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	SY	21505			
C	COSA 108.2			LIME	TON	162			
CC	OSA 110.2.1			TRANSPORTATION OF IMPACTED SOILS	CY	71			
CC	OSA 110.2.2			DISPOSAL OF IMPACTED SOILS	CY	71			
CC	OSA 110.4.1			REMOVAL, STORAGE & TREATMENT OF IMPACTED GROUNDWATER	GAL	500			
CC	OSA 110.5.1			HEALTH & SAFETY PLAN	LS	1			
CC	OSA 110.5.2			WASTE MANAGEMENT PLAN	LS	1			
С	COSA 200.1			FLEXIBLE BASE (6" COMPACTED DEPTH)	SY	5466			
С	COSA 202.1			PRIME COAT	GAL	2238			
	COSA 203.1			TACK COAT	GAL	963			1
	OSA 205.2a			HOT MIX ASPHALTIC PAVEMENT, TYPE B (4" COMP. DEPTH)	SY	686			1
	OSA 205.2b			HOT MIX ASPHALTIC PAVEMENT, TYPE B (8" COMP. DEPTH)	SY	2020			
	OSA 205.2c			HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)	SY	3252			
	OSA 205.3b			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	2370			
	OSA 205.4b			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	6706			
	OSA 205.4c			HOT MIX ASPHALTIC PAVEMENT, TYPE D (3" COMP. DEPTH)	SY	2994			
	COSA 230.1			FLEXIBLE PAVEMENT STRUCTURE REPAIR (6" HMAC TY B)	SY	112			+
	COSA 306			STRUCTURAL EXCAVATION	CY	24863			+
	COSA 307.1			CONCRETE STRUCTURE (RETAINING WALLS)	CY	4454			+
	OSA 307.1b			CONCRETE STRUCTURE (ELEVATED SIDEWALKS)	CY	15.4			+
	OSA 401.1a			REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	283			+
	OSA 401.1b			REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	11			+
	OSA 401.1c			REINFORCED CONCRETE PIPE (CLASS III)(42" DIA)	LF	215			+
	OSA 401.1d			REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	LF	70			+
	OSA 401.1d			REINFORCED CONCRETE PIPE (CLASS III)(46 DIA)	LF	59			+
	COSA 401.16			REINFORCED CONCRETE PIPE (CLASS III)(60° DIA)	LF	87			+
	OSA 401.11			INLET TYPE I (COMPLETE)(10FT)	EA	15			+
	OSA 403.7b			INLET TYPE II (COMPLETE)(10FT)	EA	5			+
	COSA 403.76			INLET EXTENSIONS (10 FT)	EA	24			+
	COSA 403.9 COSA 407.1			CONCRETE ENCASEMENT	CY	36			
	COSA 407.1			GRAVEL SUBGRADE FILLER	CY	840			+
	COSA 410.2 COSA 412.1			CEMENT STABILIZED SAND	CY	114			+
						80			
	COSA 413.1 COSA 500.1			FLOWABLE BACKFILL (LOW STRENGTH) CONCRETE CURBING	CY LF	5100			+
	COSA 500.1			CONCRETE CURB & GUTTER	LF	787			
				CONCRETE CORB & GOTTER CONCRETE SIDEWALKS	SY	1822			
	COSA 502.1								
	COSA 503.1			PORTLAND CEMENT CONCRETE DRIVEWAY	SY	971			
	COSA 503.2			PORTLAND CEMENT CONCRETE DRIVEWAY-COMMERCIAL	SY	136			+
	COSA 503.5			GRAVEL DRIVEWAY	SY	15			+
	COSA 505.1			CONCRETE RIPRAP (4" THICK)	SY	70			_
	OSA 505.11			CONCRETE RIPRAP (6" THICK)	SY	67			
	OSA 505.12			CONCRETE RIPRAP (8" THICK)	SY	1368			+
	COSA 506.1			CONCRETE RETAINING WALLS - COMB TY	CY	36.4			
	COSA 507.2			CHAINLINK WIRE FENCE (6' HIGH)	LF	1831			
	COSA 507.4			GATE- PEDESTRIAN	EA	4			1
	COSA 507.5			GATE- VEHICULAR (20 FEET)	OPENING				1
	COSA 508.1			RELOCATING WIRE FENCE	LF	748			
	COSA 509.1			METAL BEAM GUARD RAIL	LF	915			
	COSA 511.1			FLEXIBLE PAVEMENT STRUCTURE REPAIR	SY	27			
C	COSA 513.1			REMOVING AND RELOCATING MAIL BOXES	EA	1			
С	COSA 515.1			TOPSOIL (6")	CY	2129			

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	SEQUENCE NO.
	COSA 516.1			BERMUDA SODDING	SY	3213			1
	COSA 516.2			ST. AUGUSTINE SODDING	SY	3213			
	COSA 520.1			HYDROMULCH	SY	6319			
	COSA 522.1			SIDEWALK PIPE RAILING	LF	301			
	COSA 523.1			ADJUST CHAIN LINK VEHICULAR GATE	EA	1			
	COSA 523.3			ADJUST CHAIN LINK PEDESTRIAN GATE	EA	1			
	COSA 523.4			ADJUST WROUGHT IRON VEHICULAR GATE	EA	2			
	COSA 523.6			ADJUST WROUGHT IRON PEDESTRIAN GATE	EA	2			
	COSA 524.1			CONCRETE STEPS	CY	2			
	COSA 525.1			CONCRETE TRAFFIC BARRIER (PORTABLE)(LOW PROFILE)	LF	740			
	COSA 530.1			BARRICADES, SIGNS & TRAFFIC HANDLING	LS	1			
	COSA 531.03			R1-1 STOP (30")(HIGH DENSITY)	EA	6			
	COSA 531.06			R2-1 SPEED LIMIT (24"x30")(HIGH DENSITY)	EA	6			
	COSA 531.13			R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT	EA	1			
	COSA 531.14			R3-8 LANE-USE CONTROL (30"x30")(HIGH DENSITY)	EA	1			
	COSA 531.44			W16-7 DIAGONAL ARROW SIGN	EA	1			
	COSA 531.51			W11-2 PED CROSSING	EA	3			
	COSA 531.57		<u> </u>	9 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x9")(HIGH DENSITY)	EA	12			
	COSA 531.62			W16-9 AHEAD	EA	2			
	COSA 531.68			R3-17 BIKE LANE	EA	8			
	COSA 531.69			R3-17aP AHEAD PLAQUE	EA	2			
	COSA 531.7			R3-17bP END PLAQUE	EA	1			
	COSA 531.71			R4-4 BEGIN RIGHT TURN YIELD TO BIKES	EA	1			
	COSA 531.86			R8-3a No PARKING	EA	8			
	COSA 531.87			R7-201P TOW AWAY ZONE PLAQUE	EA	8			
	COSA 531.88			W8-20 WATCH FOR WATER ON ROAD	EA	2			
	COSA 531.89			RS-031 BUS STOP	EA	3			
	COSA 535.01			4 INCH WIDE YELLOW LINE	LF	5119			
	COSA 535.04			8 INCH WIDE WHITE LINE	LF	3910			
	COSA 535.07			24 INCH WIDE WHITE LINE	LF	579			
	COSA 535.08			RIGHT WHITE ARROW	EA	2			
	COSA 535.09			LEFT WHITE ARROW	EA	1			
	COSA 535.12			WORD "ONLY"	WORD	3			
	COSA 535.16			STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	28			
	COSA 535.17			BICYCLE RIDER SYMBOL	EA	28			
	COSA 535.18			SHARROW SYMBOL (BICYCLE AND CHEVRON)	EA	3			
	COSA 537.8			TRAFFIC BUTTON (TYPE II A-A)	EA	76			
	COSA 540.01.1			ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 1)	LF	70			
	COSA 540.06			CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	800			
	COSA 540.09			TEMPORARY SEDIMENT CONTROL FENCE	LF	7111			
	COSA 540.1			CURB INLET GRAVEL FILTERS	LF	1187			
	COSA 550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	1944			
	COSA 551.1			TEMPORARY SPECIAL SHORING	SF	4622			
	COSA 554.1			EROSION CONTROL MATTING	SY	7930			
	COSA 618.1			CONDUIT TRENCHED 1-1/2 INCH PVC	LF	30			
	COSA 618.1			CONDUIT ON POLE 1-1/2 INCH RMC	LF	150			
	COSA 620.1			ELECTRICAL CONDUCTORS (NO 6) (BARE)	LF	120			
	COSA 680.2			INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	1			
	COSA 682.4			INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND)	EA	8			
	COSA 684.1			TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (9-CONDUCTOR)	LF	550			
	COSA 688.2			PEDESTRIAN DETECTORS (2 INCH PUSH-BUTTON)	EA	8			
	COSA 694.1			VIVDS PROCESSOR UNIT	EA	4			
	COSA 694.2			VIVDS CAMERA ASSEMBLY	EA	4			
	COSA 694.4			VIVDS SET-UP SYSTEM	EA	1			
	COSA 694.6			VIVDS COMMUNICATIONS CABLE (COAXIAL)	LF	380			1
	TXDOT 354 2002			PLANE & TEXT ASPH CONC PAV (0" - 2")	SY	2370			1
	TXDOT 360 2015			CONC PVMT (JOINTED - CPCD) (9.5")	SY	155			1
	TXDOT 360 2016			CONC PVMT (JOINTED - CPCD) (10.5")	SY	597			1
	TXDOT 400 2001			STRUCT EXCAV	CY	50			†

LT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	TXDOT 400 2005			CEM STABIL BKFL	CY	139			110.
	TXDOT 400 2020			CEMENT STABILIZED SAND	CY	74.4			1
	TXDOT 416 2002			DRILLED SHAFT (24")	LF	1642			1
	TXDOT 416 2003			DRILLED SHAFT (30")	LF	660			1
	TXDOT 420 2003			CL C CONC (ABUT)	CY	170.5			
	TXDOT 420 2004			CL C CONC (BENT)	CY	130			1
	TXDOT 420 2006			CL C CONC (RAIL FOUNDATION)	CY	13			1
	TXDOT 420 2029			CL S CONC (SLAB)	CY	441.7			1
	TXDOT 420 2033			CL S CONC (APPR SLAB)	CY	283.4			1
	TXDOT 420 2034			CL S CONC (BRIDGE SDWLK)	CY	166.6			
	TXDOT 420			CL C CONC (MONUMENT)	CY	22.3			
	TXDOT 425 2014			PRESTR CONC SLAB BEAM (4SB12)	LF	808			
	TXDOT 425 2016			PRESTR CONC SLAB BEAM (4SB15)	LF	1471			
	TXDOT 425 2017			PRESTR CONC SLAB BEAM (5SB15)	LF	2112			
	TXDOT 428 2001			CONC SURF TREATMENT (CLASS I)	SY	3033.36			
	TXDOT 432 2001			RIPRAP (CONC) (4IN)	CY	46.7			
	TXDOT 432 2021			RIPRAP (STONE PROTECTION)(18 IN)	CY	1251.5			
	TXDOT 450 2166			RAIL (TY C223)	LF	440			
	TXDOT 450 2203			RAIL (TY T221)(MOD)	LF	436.3			
	TXDOT 454 2001			SEALED EXPANSION JOINT (4 IN)(SEJ-A)	LF	350			
	TXDOT 459 2015			GABIONS (PVC)(GALV)(3FTX3FT)	CY	231			
	TXDOT 459 2017			GABIONS (PVC)(GALV)(3FTX1.5FT)	CY	35			
	TXDOT 462 2001			CONC BOX CULV (3 FT X 2 FT)	LF	13			T
	TXDOT 462 2012			CONC BOX CULV (6 FT X 5 FT)	LF	173			
	TXDOT 462 2016			CONC BOX CULV (7 FT X 5 FT)	LF	113			
	TXDOT 462 2021			CONC BOX CULV (8 FT X 6 FT)	LF	294			T
	TXDOT 462 2026			CONC BOX CULV (9 FT X 7 FT)	LF	328			
	TXDOT 465 2001			INLET (COMPL) TY C	EA	1			
	TXDOT 465 2090			MANH (COMPL)(JUNCT BOX)(TY 2)	EA	3			
	TXDOT 465 2093			MANH (COMPL)(TY 1-C)	EA	5			
	TXDOT 465 2474			INLET EXT (TY C-E)	EA	1			
	TXDOT 465 2736			INLET (COMPL)(TY H WITH GRATE)	EA	1			
	TXDOT 466 2048			WINGWALL (PW)(HW=4 FT)	EA	2			
	TXDOT 466 2053			WINGWALL (PW)(HW=9 FT)	EA	1			
	TXDOT 474 2005			SLOT DRAIN (GAL STL)(18 IN)	LF	120			
	TXDOT 474 2006			SLOT DRAIN OUTFALL (GAL STL)(18 IN)	LF	252			
	TXDOT 496 2010			REMOV STR (BRIDGE)	EA	1			
	TXDOT 508 2002			CONSTRUCTING DETOURS	SY	242			
	TXDOT 512 2004			PORT CTB (FUR & INST)(SNGL SLP OR F-SHAPE)(TY 1)	LF	120			
	TXDOT 512 2022			PORT CTB (MOV)(SNGL SLP OR F-SHAPE)(TY 1)	LF	120			
	TXDOT 512 2040			PORT CTB (REMOVE)(SNGL SLP OR F-SHAPE)(TY 1)	LF	120			
	TXDOT 544 2001			GUARDRAIL END TREATMENT (INSTALL)	EA	2			
	TXDOT 545 2001			CRASH CUSH ATTEN (VIA SFPM)(INSTL)(WORK ZONE)	EA	2			
	TXDOT 545 2002			CRASH CUSH ATTEN (VIA SFPM)(MOVE & RESET)(WORK ZONE)	EA	2			
	TXDOT 545 2003			CRASH CUSH ATTEN (VIA SFPM)(REMOVE)(WORK ZONE)	EA	2			
	TXDOT 545 2028			CRASH CUSH ATTEN (INSTL)(QUAD)(N)	EA	2			
	TXDOT 658 2238			INSTL DEL ASSM (D-SW)SZ 1(FLX)SRF(BI)	EA	43			
	TXDOT 658 2259			INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI)	EA	20			
	TXDOT 658 2267			INSTL DEL ASSM (D-SY)SZ 1(FLX)SRF	EA	21			
	TXDOT 658 2315			INSTL OM ASSM (OM-2Y)(WC) GND	EA	4			
	TXDOT 658 2316			INSTL OM ASSM (OM-2Z)(FLX)GND	EA	4			
	TXDOT 658 2339			INSTL OM ASSM (OM-2Y)(WC) GND (BI)	EA	14			
	TXDOT 658 2383			INSTL OM ASSM (OM-3R)(WC) GND	EA	1			
	SP.1		SP. 1	CARE AND DIVERSION OF WATER	LS	1			
	SP.2		SP. 2	SOLDIER PILE & LAGGING	SF	9903			
	SP.3		SP. 3	CONTECH PEDESTRIAN BRIDGE	LS	1			
	SP.4		508	REMOVE & RESET WROUGHT IRON FENCE	LF	368			1

TOTAL ROADWAY AND DRAINAGE BASE BID	

PROJECT NAME: Seeling Channel Improvements, Phase I PROJECT NO.: 40-00213

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
SAWS SEW	ER MAIN BASE B	BID			-				
	100			MOBILIZATION	LS	1			
	101			PREPARATION OF R.O.W.	LS	1			İ
	550			TRENCH EXCAVATION SAFETY PROTECTION	LF	2,255			
	848			8" PVC SANITARY SEWER LINE (14' - 18')	LF	272			
	848			10" PVC SANITARY SEWER LINE (10' - 14')	LF	67			
	848			10" PVC SANITARY SEWER LINE (14' - 18')	LF	125			
	848			15" PVC SANITARY SEWER LINE (6' - 10')	LF	13			
	848			15" PVC SANITARY SEWER LINE (10' - 14')	LF	234			
	848			15" PVC SANITARY SEWER LINE (14' - 18')	LF	286			
	848			18" PVC SANITARY SEWER (6' - 10')	LF	10			
	848			21" PVC SANITARY SEWER (14' - 18')	LF	436			
	848			30" FIBERGLASS REINFORCED GRAVITY SANITARY SEWER (6' - 10')	LF	40			
	848			30" FIBERGLASS REINFORCED GRAVITY SANITARY SEWER (14' - 18')	LF	894			
	851			ADJUST EXISTING MANHOLES	EA	4			
	850			SANITARY SEWER STRUCTURES - 72"	EA	6			
	850			SANITARY SEWER STRUCTURES - 96"	EA	1			
	852			48" MANHOLE (0' - 6' DEEP)	EA	13			
	852			60" MANHOLE (0' - 6' DEEP)	EA	1			
	852			48" MANHOLE EXTRA DEPTH	VF	103			
	852			60" MANHOLE EXTRA DEPTH	VF	10			
	854			SANITARY SEWER LATERALS	LF	118			
	854			SANITARY SEWER CLEANOUT	EA	6			
	855			RECONSTRUCT EXISTING MANHOLE	EA	2			
	856			JACKING, BORING OR TUNNELING (48")	LF	122			
	856			CARRIER PIPE - 30" FIBERGLASS REINFORCED GRAVITY SEWER PIPE	LF	122			
	856			CASING - 48" STEEL PIPE	LF	122			
	858			CONCRETE ENCASEMENT	CY	19			
	860			VERTICAL STACKS	VF	20			
	862			ABANDONMENT OF SANITARY SEWERS (15" OR LARGER)	LF	1,463			
	864			BYPASS PUMPING	LS	1			
	866			8" - 15" SEWER MAIN TELEVISION INSPECTION	LF	984			
	866			18" - 21" SEWER MAIN TELEVISION INSPECTION	LF	446			
	866			24" - 30" SEWER MAIN TELEVISION INSPECTION	LF	934			
	866			8" - 15" SEWER MAIN CLEANING & PRE-TELEVISING (EXISTING MAINS)	LF	226			
	866			18" - 21" SEWER MAIN CLEANING & PRE-TELEVISING (EXISTING MAINS)	LF	1.652	1		

TOTAL SAWS SEWER MAIN BASE BID_____

S WATER MAIN BASE BID					
100	MOBILIZATION	LS	1		
101	PREPARATION OF R.O.W.	LS	1		
550	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	2150		
816	8" STEEL WATERLINE (SUSPENDED)	L.F.	167		
818	6" PVC WATERLINE	L.F.	110		
818	8" PVC WATERLINE	L.F.	1995		
818	12" PVC WATERLINE	L.F.	45		
824	RELAY 3/4" LONG SERVICE	EA	17		
824	RELAY 3/4" SHORT SERVICE	EA	7		
824	RELAY 1" SHORT SERVICE	EA	1		
824	NEW 5/8" LONG SERVICE	EA	1		
824	NEW 3/4" UNMETERED LONG SERVICE	EA	1		
828	6" GATE VALVE	EA	1		
828	8" GATE VALVE	EA	12		
828	12" GATE VALVE	EA	1		
833	EXISTING METER & EXISTING METER BOX RELOCATION	EA	16		
833	METER BOX	EA	15		
836	PIPE FITTING, ALL SIZES AND TYPES	TON	5.9		

PROJECT NAME: Seeling Channel Improvements, Phase I PROJECT NO.: 40-00213

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	840			6" WATER LINE TIE IN	EA	7			
	840			8" WATER LINE TIE IN	EA	6			
	840			12" WATER LINE TIE IN	EA	1			
	834			FIRE HYDRANT ASSEMBLY, COMPLETE	EA	3			
	841			HYDROSTATIC TESTING	EA	6			
	844			2" BLOWOFF TEMPORARY	EA	9			
	846			AIR RELEASE ASSEMBLY	EA	2			
	858			CONCRETE ENCASEMENT	CY	17			
	3000.06			REMOVAL, TRANSPORTATION AND DISPOSAL OF AC PIPE	LF	515			

TOTAL SAWS WATER MAIN BASE BID

LANDSCAPE BASE BID	ı						
PEDESTRIAN BRIDGE							
PB.1	M.14		ASPHALT JOGGING TRAIL (INCLUDES CONCRETE RIBBON CURB AND DRAINAGE GAPS)	SF	4,572		
PB.2	M.7		CONCRETE BANDING ON PEDESTRIAN BRIDGE	SF	852		
PB.3	M.8		CONCRETE WALK FOR PEDESTRIAN BRIDGE	SF	1,789		
PB.4	L.4		PEDESTRIAN BRIDGE BEGA LIGHTS COMPLETE	EA	22		
PB.5	L.5		REMOVABLE BOLLARD COMPLETE	EA	6		
PB.6	XL 2-5	LB 1.0	RELOCATION OF EXISTING BEGA POLE LIGHTING COMPLETE	EA	4		
PB.7		LS1.6/LS2.3	ENTRY COLUMN COMPLETE (PEDESTRIAN BRIDGE)	EA	4		
PB.8	M.6	LS2.1	ORNAMENTAL STEEL RAILING ON CULVERT COMPLETE	LF	44		
VEHICULAR BRIDGE AN	ND MONUMENT						
VB.1	S.1		LIMESTONE STONE VENEER	FF	9,944		
VB.2	S.2		CAST STONE CAP	LF	1,988		
VB.3	M.1 & L.3		ALUMINUM LIGHT HOUSE ENCLOSURE AND ENTRY MONUMENT TOWER LIGHT	EA	1		
VB.4	M.2 & M.3	LS 2.3	ENTRY TOWER MONUMENT & ENTRY WALL W/ FOUNDATION COMPLETE	EA	1		
VB.5	M.4 & M.3	LS 2.4	ALUMINUM LETTERS ON ENTRY WALL W/ STEEL BACKING	EA	16		
VB.6	M.6		ORNAMENTAL STEEL RAILING ON WALLS COMPLETE	LF	1,907		
VB.7		LS 2.5	VEHICULAR BRIDGE ARCH. COLUMNS COMPLETE	EA	8		
VB.8		1/LS 1.1 /LS2.3	ENTRY COLUMN COMPLETE (MONUMENT WALLS)	EA	2		
VB.9	L.1		L.E.D. LIGHT IN LETTERS	EA	16		
VB.10	L.2	LS 2.5	BEGA POLE LIGHT MOUNTED ON VEHICULAR BRIDGE ARCH. COLUMN COMPLETE	EA	4		
VB.11		LP1.2/LP2.1	ENTRY LANDSCAPE BEDS WITH MAIN ENTRY PLANTS	LS	1		
VB.12		LI1.1	IRRIGATION SYSTEM COMPLETE	LS	1		
LANDSCAPE MITIGATION	N						
LM.1		LP	FERTILIZER	LS	1		
LM.2		LP 2.1	LANDSCAPE PLANTING - 2" TREES	EA	102		
LM.3		LP 2.1	LANDSCAPE PLANTING - 4" TREES	EA	36		
LM.4		LP 2.1	LANDSCAPE PLANTING - 6" TREES	EA	48		
		Specification Section					
LM.5		02900, 02935 LP	CHANNEL PLANTS	LS	1		
		Specification Section					
LM.6		02900, 02935 LP	NEW PLANTING WATERING / GATOR BAGS / WATER TRUCK	LS	1		
		Specification Section					
LM.7		02900, 02935 LP	PLANT AND TURF MAINTENANCE (90 DAYS)	LS	1		
		· · · · · · · · · · · · · · · · · · ·					
LM.8		Specification Section	BERMUDA SOD - W/ 2" COMPOSTED TOPDRESSING	SF	6,355		
		02900, 02935 LP					
LM.9		Specification Section	BERMUDA HYDROMULCH - W/2" COMPOSTED TOP DRESSING	SF	215.675		
		02900, 02935 LP			-,-		
LM.10		Specification Section	HYDROMULCH- DRAINFIELD MIX 2" COMPOSTED TOP DRESSING	SF	61,054		
ZIVI. 10		02900, 02935 LP			,		
LM.11		LTP 2.5	EXISTING TREE PROTECTION	LF	1,579		
LM.12		LTP 1.4	EXISTING TREE FERTILIZATION AND PRUNNING	EA	2		
LM.13		LTP 1.3	EXISTING CYPRESS TREE MILLING	EA	5		

TOTAL LANDSCAPE BASE BID

PROJECT NAME: Seeling Channel Improvements, Phase I

PROJECT NO.: 40-00213

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	PE - ELECTRICAL	BASE BID							
PEDESTRI	AN BRIDGE								
	PBE.1		428	#8 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	1576			
	PBE.2		428	TRENCHING & BACKFILL	LF	282			
	PBE.3		428	DEMOLITION	HR	24			
	PBE.4		428	#10 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	788			
	PBE.5		429	RISER DIAGRAM	LS	1			
	PBE.6		430	LIGHTING INSTALLED	EA	11			
	PBE.7		430	PANEL -TERMINATIONS	LS	1			
	PBE.8	Specs	260000, 260500 260514	GENERAL CONDITIONS	LS	1			
VEHICULA	R BRIDGE AND M	ONUMENT							
	VBE.1		428	#8 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	2682			
	VBE.2		428	TRENCHING & BACKFILL	LF	282			
	VBE.3		428	#10 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	1,341			
	VBE.4		430	LIGHTING INSTALLED	EA	21			
	VBE.5	Specs	260000, 260500 260514	GENERAL CONDITIONS	LS	1			

TOTAL LANDSCAPE - ELECTRICAL BASE BID

CPS GAS	BASE BID					
INSTALL (GAS MAIN OR CASING					
	G1.a	6" PLASTIC PIPE AND TRACER WIRE	LF	216		
	G1.b	2" PLASTIC PIPE AND TRACER WIRE	LF	73		
INSTALL (GAS MAIN BY DIRECTIONAL DRIL	LING				
	G2	6" PLASTIC PIPE AND TRACER WIRE	LF	330		
UNCOVER	R AND ABANDON ACTIVE GAS MA	AINS ONLY WHEN MAIN IS NOT BEING REPLACED				
	G3	2" STEEL MAIN	EA	1		
RERUN A	ND LOWER GAS SERVICE OFF N	EW MAIN				
	G4	1/2" SHORT SIDE	EA	1		
RERUN A	ND LOWER GAS SERVICE OFF N	EW MAIN				
	G5	FLOWABLE FILL	CY	8		
	G6	CUT AND RESTORE PAVEMENT TO BE USED AS DIRECTED BY CPSE REP.	SY	25		

NOTE A: For each of the items above, the Contractor's work is to include: trenching, joining, testing, coating steel, building and painting risers and meter set-ups, connecting new pipe to existing pipe and installing all necessary fittings for tie-ins such as, stopper

NOTE B: Trenching is considered to be the normal method of service installation and is required on all service adjustments. A gas service can be rerun by INSERTION, when the old service is PULLED from the riser to one foot inside the property line, ONLY at the

NOTE C: Bid quantities shown are estimates by CPS Energy. Per foot prices shall be applied to the actual distance measured along the top of the trench or the actual length of the bore, as applicable.

NOTE D: Unit prices shall include insurance costs. CPS Energy's insurance requirements are specified in Exhibit GAS-6.

NOTE E: The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for this item.

TOTAL CPS GAS BASE BID

CPS UND	RGROUND ELECT	RIC BASE BIL					
	E1		LIGHT POLE FOUNDATIONS AND CONDUITS (COMPLETE)	LS	1		

TOTAL CPS UNDERGROUND ELECTRIC BASE BID___

PROJECT NAME: Seeling Channel Improvements, Phase I PROJECT NO.: 40-00213

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
ADDITIVE	ALTERNATE #1 - P	EDESTRIAN E	BRIDGE UPGRADES						
	PB.9	M.5		PEDESTRIAN BRIDGE SAFETY RAILING UPGRADE TO HORIZONTAL CABLES	LS	1			
	PB.10	M.9	LS 2.7, LS 2.8	PEDESTRIAN BRIDGE STEEL INSET	LF	480			
	PB.11	M.10	LS 2.7, LS 2.8	PEDESTRIAN BRIDGE STEEL TUBE	LF	480			
	PB.12	M.11	LS 2.9, LS 2.10	PEDESTRIAN BRIDGE STEEL FRAME	LF	480			
	PB.13	M.12	Specification Section 321316.15-4	GLASS LITHOCRETE BANDING	SF	852			

TOTAL ADDITIVE ALTERNATE #1 - PEDESTRIAN BRIDGE UPGRADES BID

ADDITIV	/E ALTERNATE #2- C	ONCRETE PAR	K TRAIL					
	PI.1	M.7	LS 2.11	CONCRETE TRAIL	SF	8,486		
	Pl.2	S.1, S.2	LS 2.11	RETAINING WALL COMPLETE (CONCRETE, CAP, FRENCH DRAIN, NDS PIPE & STONE VENEER)	LF	87		

TOTAL ADDITIVE ALTERNATE #2 - CONCRETE PARK TRAIL BID

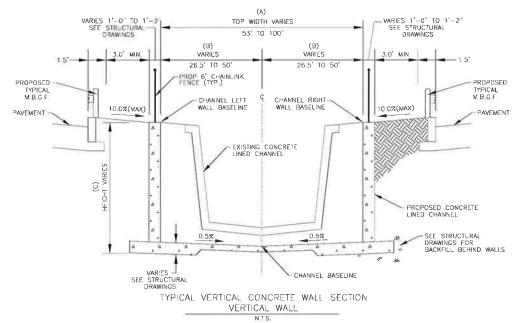
ADDITIVE	ALTERNATE #3- I	PARK TRAIL LI	GHTING					
	Pl.3	L.6		UNDER VEHICULAR BRIDGE LIGHT	EA	1		
	PI.4	L.7		NEW BEGA POLE LIGHTS	EA	5		
	TE.1		428	#8 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	150		
	TE.2		428	TRENCHING & BACKFILL	LF	75		
	TE.3		428	#10 THHN WIRE , CONDUIT & JUNCTION BOXES	LF	75		
	TE.4		430	LIGHTING INSTALLED	EA	6		
	TE.5	Specs	260000, 260500 260514	GENERAL CONDITIONS	LS	1		

TOTAL ADDITIVE ALTERNATE #3 - PARK TRAIL LIGHTING BID

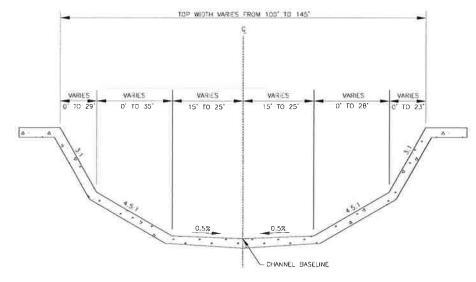
ADDITIVE A	LTERNATE #4-	PARK SHADE S	TRUCTURE AND PICNI	C AREAS				
	PI.5	F.1 & M.13		PAVILION- (PREFABRICATED)	EA	1		
	PI.6	F.2		BBQ GRILL	EA	4		
	PI.7	F.3		ADA PICNIC TABLES	EA	4		
	PI.8	F.4		TRASH OR RECYCLABLE RECEPTACLES - COSA PARKS & RECREATION STANDARD	EA	3		
	PI.9	F.5		PEDESTAL DRINKING FOUNTAIN (W/ PET FOUNTAIN)	EA	1		
	PI.10	L.8		PAVILION LIGHTS	EA	2		
	PE.1		428	#8 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	86		
	PE.2		428	TRENCHING & BACKFILL	LF	43		
	PE.3		428	#10 THHN WIRE, CONDUIT & JUNCTION BOXES	LF	43		
	PE.4		430	LIGHTING INSTALLED	EA	2		
	PE.5	Specs	260000, 260500 260514	GENERAL CONDITIONS	LS	1		

TOTAL ADDITIVE ALTERNATE #4 - PARK SHADE STRUCTURE AND PICNIC AREAS BID

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				SUMMARY					
				TOTAL ROADV		NAGE BASE BID			
						MAIN BASE BID MAIN BASE BID			-
						CAPE BASE BID			-
						RICAL BASE BID			-
						GAS BASE BID			-
				TOTAL CPS U	INDERGROUNI	DELECTRIC BID	\$		-
					TOTAL BAS	SE BID AMOUNT	\$		-
				TOTAL ADDITIVE ALTERNATE #1 - PEDEST TOTAL ADDITIVE ALTERNATE #2 TOTAL ADDITIVE ALTERNATE #4 TOTAL ADDITIVE ALTERNATE #4 - PARK SHADE STRUC	- CONCRETE F 3 - PARK TRAI	PARK TRAIL BID L LIGHTING BID	\$		
			certifies that the unit	prices shown on this complete computer print-out for all of the bid items and the alternates contained in this	s				
			Acknowledged and a	grees that the total bid amount shown will be read as its total bid and further agrees that the official total bid	i				
				g	-				
Signed:			Date:						
Title:			_						



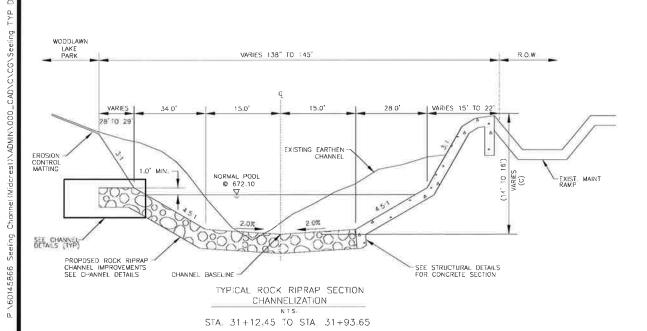
s	tatio	ın	Top Width	Top Width to Centerline	Height
			(ft)	(ft)	(ft)
FROM		TO	Α	В	C
40+69.78	to	41+04.29	53	26.5	12-14
39+03,68	to	40+69.78	53-65	Varies	11-13
38+40,97	to	39+03,68	65	32.5	11-12
37+36.85	to	38+40,97	65-75	Varies	11-13
36+17-22	to	37+36.85	75	37.5	11-13
35+24.32	to	36+17.22	75-95	Varies	11-13
34+21.60	to	35+24,32	95	47.5	10-13
32+93.42	to	34+21,60	95-100	Varies	14-15
32±45.06	to	32+03.42	100	50	14-16

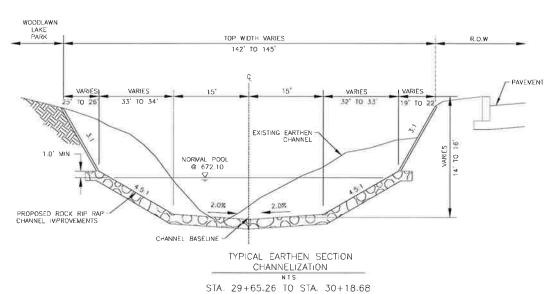


TYPICAL CONCRETE TRANSITION SECTION

6.75.

STA. 31+93.65 TO STA. 32+45.06





NOTE:
1. EROSION CONTROL MATTING SHALL BE
PROPEX LANDLOK® 300 WITH DUCKBILL ANCHORS
OR APPROVED EQUAL.



AECOM

AECOM TECHNICAL SERVICES, INC 6800 PARK TEN BLVD, SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM

TBPE REG NO F-3580

CITY OF SAN ANTONIO

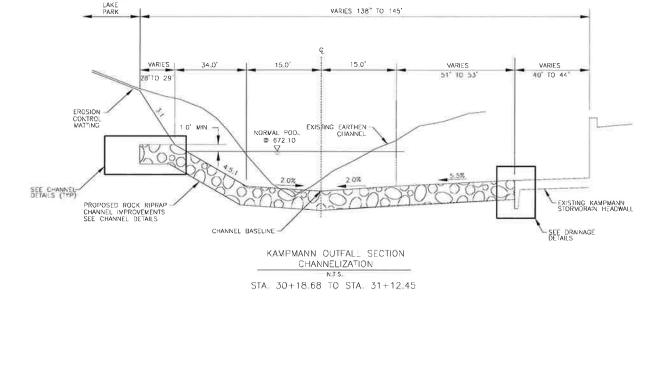
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
SEELING CHANNEL PHASE I

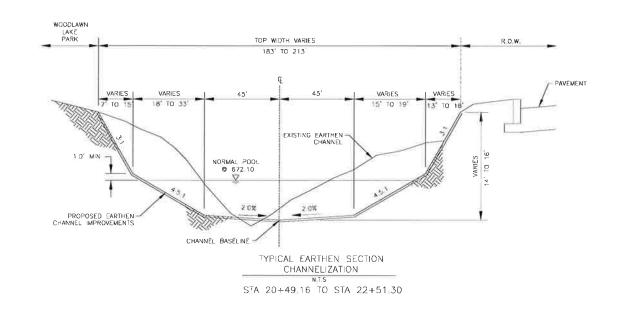
TYPICAL CHANNEL SECTIONS I

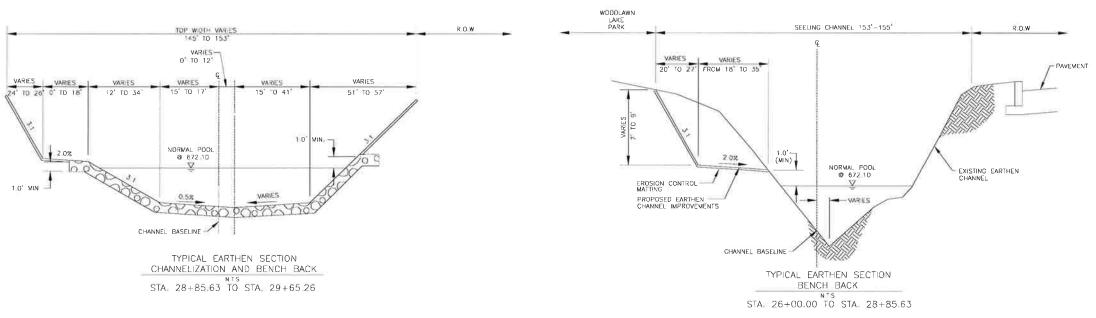
PROJECT NO 60184822 DATE JULY 2012

RWIN BY BM DSCN BY MJP CHKD BY SDB SHEET NO 20

WOODLAWN:









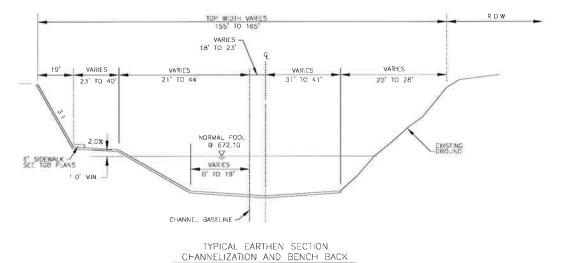


CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TYPICAL CHANNEL SECTIONS I

					2 OF 3
		PROJECT NO 6	0184822	DATE JULY	2012
ORWN. BY	ВМ	DSGN. BY: MJP	CHKD BY SDB	SHEET NO.	21



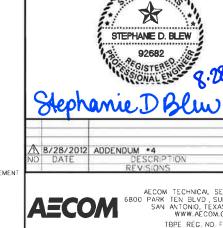
STA 23+58.00 TO STA 26+00.00

PAVEMENT VARIES VARIES VARIES
2' 10 18' 0' 10 23' 29' 10 35' VARIES 20' TO 28' EXISTING EARTHEN CHANNEL NORWAL POOL 9 672 10 1,0' VIN -CHANNEL BASELINE

TYPICAL EARTHEN SECTION CHANNELIZATION AND BENCH BACK NTS STA 22+51 30 TO STA 23+58 00

WOODLAWN LAKE PARK ₱ PAVEMENT VARIES VARIES

NOTE:
1. EROSION CONTROL MATTING SHALL BE
PROPEX LANDLOK® 300 WITH DUCKBILL ANCHORS
OR APPROVED EQUAL.



R.D.W

AECOM TECHNICAL SERVICES, INC 6800 PARK TEN BLVD, SUITE 180 SOUT SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG NO F-3580

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

TYPICAL CHANNEL SECTIONS III

DATE JULY 2012 PROJECT NO 60184822 DRWN BY BM DSGN BY: M.IP CHKD BY: SDB SHFFT ND.

VARIES ; VARIES TO 18 0' TO 23' 29' TO 35" 20' TO 28" EXISTING EARTHEN CHANNEL NORMAL POOL @ 672,10 WOODLAWN LAKE PARK PROPOSED CONCRETE: TOP WIDTH VARIES 183' TO 213 ROCK RIPRAP VARIES 15° TO 19° VARIES VARIES CHANNEL BASELINE TYPICAL EARTHEN SECTION CHANNELIZATION AND BENCH BACK EXISTING EARTHEN -CHANNEL N.T.S. STA 23+0350 TO STA 23+81-50 1.0' MIN NORMAL POOL @ 672 10 PROPOSED ROCK RIPRAP TYPICAL EARTHEN SECTION CHANNELIZATION NT.S STA 21+13-16 TO STA 21+44-27

WOODLAWN LAKE PARK

SWE NOTES

- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A FLOODPLAIN, DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFILICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY, OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- EIGHTY-FIVE PERCENT OF THE EARTHEN CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.

ENGINEER'S NOTES

- ALL STORM DRAIN PIPE SHALL BE RCP CLASS III WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C361 OR C443UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL PRECAST BOX CULVERTS SHALL BE ASTM C1433 WITH RUBBER GASKETS FOR SEALING THE JOINTS.
- ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. THE CONTRACTOR IS REMINDED OF HIS RESPONSIBILITY TO PROVIDE A TRENCH SAFETY PROTECTION PLAN PRIOR TO THE START OF CONSTRUCTION. THIS DOCUMENT SHALL BE SUBMITTED TO THE CITY AT THE PRECONSTRUCTION CONFERENCE.
- LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF STORM DRAIN CONSTRUCTION SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF CONSTRUCTION. THIS SHALL BE A NO SEPARATE PAY ITEM.
- ALL JOINTS, SEALS, CONNECTIONS, AND MODIFICATIONS NECESSARY FOR PROPER INSTALLATION OF STORM DRAINAGE SYSTEMS SHALL BE SUBSIDIARY TO CMP, RCP AND BOX CULVERT BID ITEMS.
- ENERGY DISSIPATION BLOCKS SHALL BE INCLUDED IN THE PRICE BID FOR CONCRETE RIPRAP AND ARE A NON SEPARATE PAY ITEM.
- CONTROL POINTS FOR MANHOLES AND JUNCTION BOXES SHALL BE THE CENTER OF THE
- CONTROL POINTS FOR CURB INLETS SHALL BE THE MIDPOINT OF THE FACE OF CURB FOR CURB INLET ONLY (EXCLUDING INLET EXTENSIONS). TOP OF CURB INLET ELEVATIONS SHALL MATCH THE PROPOSED TOP OF CURB ELEVATIONS.
- ALL RCP STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A CLASS 'C' EMBEDMENT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL BACKFILL AND EMBEDMENT SHALL BE SUBSIDIARYTO COSA BID ITEM 401.
- MANHOLE RISERS ARE SUBSIDIARY TO JUNCTION BOX, MANHOLE AND INLET, BID ITEMS. ALL MANHOLE COVERS SHALL BE BOLTED.
- 10. ALL HORIZONTAL BENDS AND PIPE TO PIPE ANGLED CONNECTIONS IN RCP PIPE SHALL BE CONSTRUCTED USING PRE-FABRICATED BENDS AND FITTINGS.
- 11. THE LOCATIONS OF DRIVEWAYS, STEPS, ETC., AS SHOWN ON THESE PLANS ARE APPROXIMATE. ACCURATE LOCATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION AFTER CONSULTATION WITH THE PROPERTY OWNERS.
- 12. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
- 13. CONTRACTOR SHALL REPLACE ALL BENCHMARKS REMOVED OR MODIFIED BY CONSTRUCTION
- 14. CONTRACTOR SHALL RECONSTRUCT ALL EXISTING DRIVEWAYS TO THE LIMITS SHOWN OR TO THE NEAREST CONSTRUCTION JOINT IN THE EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.
- 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND MAINTAIN ALL EROSION CONTROL FACILITIES BEFORE, DURING, AND AFTER ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 16. FLEXIBLE BASE SHALL BE TYPE D GRADE 1.
- 17. FOR PEDESTRIAN SAFETY, THE CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (4 FEET TALL MINIMUM) AROUND ALL OPEN EXCAVATIONS OR AS DIRECTED BY THE ENGINEER. SUCH FENCING SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 18. THE CONTRACTOR SHALL COVER OR TEMPORARILY REMOVE EXISTING SIGNS THAT CONFLICT WITH THE SUGGESTED TRAFFIC CONTROL PLANS OR THE INTENT THEREOF BUT DO NOT REQUIRE RELOCATION DUE TO PHYSICAL CONFLICTS. SAID SIGNS SHALL NOT BE RELOCATED UNTIL TEMPORARY SIGN SUPPORTS HAVE BEEN INSTALLED TO ALLOW FOR THE IMMEDIATE RELOCATION OF ANY SUCH SIGNS. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 19. THE PROJECT IS LOCATED WITHIN THE FEMA 100 YEAR FLOODPLAIN, AND IS SUBJECT TO PERIODIC INUNDATION. CONTRACTOR SHALL NOT STOCKPILE ANY CONSTRUCTION MATERIALS WITHIN THE 100 YEAR FLOODPLAIN, AND SHALL BE RESPONSIBLE FOR CLEARING ANY CONSTRUCTION MATERIALS FROM ADJACENT WATERWAYS AFTER A FLOOD EVENT. REPAIR OF ANY DAMAGES TO DRAINAGE STRUCTURES IN THE PROJECT AREA, OR DOWNSTREAM CAUSED BY CONSTRUCTION DEBRIS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 20. ALL BEARINGS AND COORDINATES ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NAD-83 THE SOUTH CENTRAL ZONE. GRID TO SURFACE FACTOR: 1.000169. COORDINATES PROVIDED ARE SURFACE COORDINATES.

- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING & PROTECTION OF UTILITY POLES DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF THEIR POLES SO THEY CAN VERIFY THE POLES ARE BEING PROPERLY BRACED, PROTECTED, AT NO
- 22. PREPARATION OF ROW SHALL INCLUDE ALL ROW AREAS WITHIN THE PROJECT, WHOLE LOT PURCHASE AREAS, DRIVEWAY AND LEAD WALK PENETRATION AREAS, SEELING CHANNEL, AND WOODLAWN LAKE PARK AREA WITHIN THE DAYLIGHT AND PROJECT LIMITS. PREPARATION OF ROW SHALL INCLUDE REMOVAL OF EXISTING CONCRETE, RETAINING WALLS, CONCRETE COLUMNS, BRIDGE CLASS CULVERTS, THE S. JOSEPHINE-TOBIN DR. BRIDGE, SLOPE PAVING, FLUMES, GUARDRAILS, AND STORM DRAIN CONDUIT, EXISTING PARK TRAIL, REMOVAL & SALVAGE OF WOODEN BOLLARS AND OTHER AREAS AS REQUIRED FOR THE DIVERSION AND CARE OF WATER.
- 23. ALL COORDINATES ARE TAKEN AT EDGE OF PAVEMENT OR BACK OF VERTICAL CURBS UNLESS NOTED OTHERWISE.
- 24. ALL RADII DIMENSIONS ARE TO FACE OF CURB.
- 25. CONTRACTOR SHALL PROTECT ALL EXISTING FENCE AND GATES ALONG ROW LINES UNLESS OTHERWISE NOTED
- 26. FILL MATERIAL SHALL BE FREE OF VEGETATION AND DEBRIS, AND SHALL BE UNIFORMLY COMPACTED TO A MINIMUM 95% TEX-113-E AT -2% TO +2% PERCENTAGE POINTS ABOVE THE SOILS' OPTIMUM MOISTURE CONTENT UNTIL FINAL COMPACTION, DETERMINED BY THAT TEST. FILL MATERIAL SHALL BE SPREAD IN LOOSE LIFTS NOT EXCEEDING 8 INCHES THICK, ON-SITE SOILS, FREE OF ANY UNUITABLE MATERIAL, ROCK OR CONCRETE GREATER THAN 4 INCHES IN ANY DIRECTION, MAYBE USED AS GENERAL SITE FILL.
- 27. FENCE AND GATE ITEMS SHALL INCLUDE CONNECTIONS TO EXISTING FENCING NOT IMPACTED BY THE PROJECT AND INCLUDE REPLACEMENT OF MOW STRIPS IF PRESENT ALONG THE EXISTING FENCELINE. ADDITIONAL CORNER POSTS MAY BE REQUIRED FOR CONNECTION, AND ARE A NO SEPARATE PAY ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF EXISTING FENCING AND MATERIAL NOT SUITABLE FOR REUSE OR IN EXCESS OF WHAT IS REQUIRED FOR RELOCATION. THIS SHALL BE A NO SEPARATE PAY ITEM.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING IRRIGATION SYSTEMS IN THE PROJECT AREA. ADJUSTMENTS TO EXISTING IRRIGATION SYSTEMS IMPACTED BY THE PROJECT SHALL BE NO SEPARATE PAY ITEM.
- 29. CONTRACTOR SHALL SALVAGE EXISTING LANDSCAPING PLANTS AND MATERIALS ON PRIVATE PROPERTY TO THE MAXIMUM EXTENT PRACTICABLE.
- 30. TREE LESS THAN 6"IN DIAMETER ARE NOT SHOWN ON PLANS.
- 31. THE REPAIR AND MAINTENANCE OF THE DIVERSION AND CARE OF WATER SHALL BE THE SOLE RESPOBSIBILITY OF THE CONTRACTOR AND SHALL BE A NO SEPARATE PAY ITEM.
- 32. THE CONTRACTOR IS ENCOURAGED TO REUSE ON-SITE EXCAVATED SOILS TO THE MAXIMUM EXTENT PRACTICABLE.
- A(33. EROSION CONTROL MATTING SHALL BE PROPEX LANDLOK 300 WITH DUCKBILL ANCHORS OR APPROVED EQUAL.)
 - 34. LIME STABILIZED SUBGRADE SHALL CONTAIN 3% HYDRAUTED LIME BY WEIGHT, IF DRY PLACEMENT OF LIME IS USED DURING CONSTRUCTION, AN ADDITIONAL 1% OF LIME SHOULD BE ADDED.
 - 35. CONTRACTOR SHALL ENSURE FENCES DISTURBED BY CONSTRUCTION ARE CLOSED AT THE END OF EACH WORKING DAY WITH TEMPORARY CONSTRUCTION FENCING AT A MINIMUM. THIS SHALL BE A NON-SEPARATE PAY ITEM.
- 36. CONTRACTOR SHALL REFER TO THE DIVERSION AND CARE OF WATER SPECIFICATION FOR ADDITIONAL REQUIREMENTS RELATED TO THE MANAGEMENT OF STORMWATER DURING CONSTRUCTION.
- 37. IN ACCORDANCE WITH THE SPECIAL ENVIRONMENTAL SPECIFICATIONS, CONTRACTOR IS ENCOURAGED TO REUSE SOILS EXCAVATED FROM THE AREA OF CONCERN TO FORM THE PROPOSED LANDSCAPE BERMS SHOWN ON THE OVERALL LANDSCAPE GRADING PLAN, PROVIDED THE FILL MATERIAL IS PLACED NO CLOSER THAN 10 FEET FROM PROPOSED PAVEMENT AND SIDEWALK.

 38. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE APPEARANCE OF ALL CONCRETE STRUCTURES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

UTILITY LEVEL OF QUALITY TABLE

Utility	Level (Quality
Othity	Horizontal Designation	Vertical Designation
Storm Drain Mains	С	Α
Wastewater Mains	Α	Α
Water Distribution Mains*	С	С
Natural Gas Mains*	В	С
Overhead Electrical Lines	С	n/a
Underground Electrical Lines	В	D
Overhead Telecommunication Lines	С	n/a
Underground Telecommunication Line	В	С
Water Service Lines	С	С
Wastewater Service Lines	С	С
Gas Service Lines	D	D

*Water distribution mains and natural gas mains are at level A quality in point elevations near channel crossings locations only

	Step 8/28/2012 DATE	si Si	EPHANIE I 9268 SONAL	D. BLEW	m. 6.5.	50	
A NO	8/28/2012 DATE		AECO	OM TECHNIC K TEN BLV N ANTONIO WWW.A	CAL SERVIC	CES, IN 180 S 8213	VC.
C	CIT`	VEMENTS	MANAGEM	THE OWNER WHEN PERSON NAMED IN		TMEN	T
	G		RAL	NOT	ES		

PROJECT NO.: 60184822

DATE: JULY 2012

SUMMARY OF CHANNEL QUANTITIES

	104.1	105.1	107.1	108.1	108.2	200.1	205.4b	306.1	307.1	503.1	505.12	507.2	507.4	507.5	515.1	516.1	516.2	520.1	554.1	432 2021	1 SP. 2
SHT. NO.	STREET EXCAVATION	CHANNEL EXCAVATION	EMBANKMENT (FINAL)(DENS CONT)(TY C)	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	LIME	FLEXIBLE BASE (6" COMPACTED DEPTH)	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMPACTED DEPTH)	STRUCTURAL EXCAVATION	CONCRETE STRUCTURE (RETAINING WALLS)	PORTLAND CEMENT CONCRETE DRIVEWAY	CONCRETE RIPRAP (8" THICK)	CHAINLINK WIRE FENCE (6 HIGH)	GATE- PEDESTRIAN	GATE- VEHICULAR (20 FEET)	TOPSOIL (6")	BERMUDA SODDING	ST AUGUSTINE SODDING	HYDROMULO H	EROSION CONTROLS MATTING **	RIPRAP (STONE PROTECTI ON)(18 IN)	SOLDIER PILE & LAGGING
	CY	CY	CY	SY	TON	SY	SY	CY	CY	SY	SY	LF	EA	OPENING	CY	SY	SY	SY	(SY	CY	SF
146								5962	1446			710							()	9318
147								9319	1485			610							·		585
148		2674	7					8940	1473		1228	511							574	352	
149		4798									116								2818	513	
150	4461	7204	1365																3774 <	140	
151		4108																	764 <	150	
174	441		211					618					4	1					,	}	
175	555		203	341	3	305	305			72					471	705	705	1410	()	
176	78		158												514	769	769	1538	(
Total	5535	18783	1944	341	00300	305	305	24839	4404	72	1344	1831	4	1	985	1474	1474	2948	7930	1155	9903
QUANTITIES INCLUDE F	PROPOSED GRADING	WITHIN WOODLAN	NN LAKE PARK AREAS	S. ** 3 755 CV OI	E EILTED EVDD			CONTRACTORS		`	•	•			•	•	•	•			

QUANTITIES INCLUDE PROPOSED GRADING WITHIN WOODLAWN LAKE PARK AREAS (** 3,755 SY OF FILTER FABRIC INCLUDED WITH THIS ITEM FOR CONTRACTORS INFORMATION)

SUMMARY OF DRAINAGE QUANTITIES

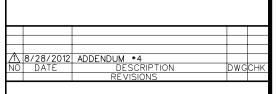
	306	307.1	307.1b	401.1a	401.1b	401.1c	401.1d	401.1e	401.1f	403.7a	403.7b	403.9	407.1	410.2	412.1	413.1	505.1	505.11	505.12	508.1	511.1	515.1
SHT. NO.	STRUCTURAL EXCAVATION	CONCRETE STRUCTURE (RETAINING WALL)	CONCRETE STRUCTURE (ELEVATED SIDEWALKS)	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(42" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(48" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(60" DIA)	REINFORCED CONCRETE PIPE (CLASS III)(66" DIA)	INLET TYPE I (COMPLETE)(10FT)	INLET TYPE II (COMPLETE)(10F T)	INLET EXTENSIONS (10 FT)	CONCRETE ENCASEMENT	GRAVEL SUBGRADE FILLER	CEMENT STABILIZED SAND	FLOWABLE BACKFILL (LOW STRENGTH)	CONCRETE RIPRAP (4" THICK)	CONCRETE RIPRAP (6'' THICK)	CONCRETE RIPRAP (8" THICK)	RELOCATING WIRE FENCE	FLEXIBLE PAVEMENT STRUCTURE REPAIR	TOPSOIL (6")
	CY	CY	CY	LF	LF	LF	LF	LF	LF	EA	EA	EA	CY	CY	CY	CY	SY	SY	SY	LF	SY	CY
182				31	3					3		4	11	252	34	23						
183						14			87	2		4	3	65	9	6						
184					8	164	22	59		3	1	6	6	148	20	14						
185				22						1			1	17	3	2						
186							32			2		4	6	131	18	12						
187						37	16				4	6	3	63	8	6					27	37
188				205						4			6	132	18	13						
189																	6		3			
190																	10		5			
191																	11		5			
192			7.7														22	9				
193			7.7														22	9				
194	24	50.4												16	2	2		49	11	240		34
197				25										16	2	2						
Total	24	50.4	15.4	283	11	215	70	59	87	15	5	24	36	840	114	80	70	67	24	240	27	71

CONT. SUMMARY OF DRAINAGE QUANTITIES

	516.1	516.2	520.1	522.1	550.1	551.1	432 2021	459 2015	462 2001
SHT. NO.	BERMUDA SODDING	ST. AUGUSTINE SODDING	HYDROMULCH	SIDEWALK PIPE RAILING	TRENCH EXCAVATION SAFETY PROTECTION	TEMPORARY SPECIAL SHORING	RIPRAP (STONE PROTECTION)(18 IN)	GABIONS (PVC)(GALV)(3FT X 3FT)	CONC BOX CULV (3 FT X 2 FT)
	SY	SY	SY	LF	LF	SF	CY	CY	LF
182					230	3672			
183					161				
184					363				
185					35				
186					264				
187	56	56	111		347				
188					222				
189					84				
190					46				
191					138				
192				14			4.5		
193				14			12		13
194	77	77	48		27	950		37	
197					27				
Total	133	133	159	28	1944	4622	16.5	37	13

CONT. SUMMARY OF DRAINAGE QUANTITIES

462 2012	462 2016	462 2021	462 2026	465 2001	465 2474	465 2090	465 2093	465 2736	466 2048	466 2053	474 2005	474 2006
CONC BOX CULV (6 FT X 5 FT)	CONC BOX CULV (7 FT X 5 FT)	CONC BOX CULV (8 FT X 6 FT)	CONC BOX CULV (9 FT X 7 FT)	INLET (COMPL) TY C	INLET EXT (TY C-E)	MANH (COMPL)(JUNCT BOX)(TY 2)	MANH (COMPL)(TY 1-C)	INLET (COMPL)(TY H WITH GRATE)	WINGWALL (PW)(HW-4 FT)	WINGWALL (PW)(HW-9 FT)	SLOT DRAIN (GAL STL)(18 IN)	SLOT DRAIN OUTFALL (GAL STL)(1: IN)
LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LF
			328				1					
						1	1					
						1	1					
				1	1							
173						1	1					
		294					1					
											26	58
											46	104
											48	90
									2			
	113									1		
								1				
173	113	294	328	1	1	3	5	1	2	1	120	252



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WWW.AECOM.COM TBPE REG. NO. F-3580

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS

SUMMARY OF BRIDGE QUANTITIES

SUMMA	ARY OF	BRIDGE	QUANTITI	ES				~~~~	~~~	~~~	~~~													
	400 2001	400 2005	400 2020	416 2002	416 2003	420 2003	420 2004	420 2029	420 2033	420 2034	420	425 2014	425 2016	425 2017	428 2001	432 2001	432 2021	450 2203	450 2166	454 2001	459 2015	459 2017	496 2010	SP. 3
SHT. NO.	STRUCT EXCAV	CEM STABIL BKFL	CEMENT STABILIZED SAND	DRILLED SHAFT (24"	DRILLED SHAFT (30")	CL C CONC (ABUT)	CL C CONC	CL S CONC (SLAB)	CL S CONC (APPR SLAB)	CL S CONC (BRIDGE SDWLK)	CL C CONC (MONUMENT)	PRESTR CONC SLAB BEAM (4SB12)	PRESTR CONC SLAB BEAM (4SB15)	PRESTR CONC SLAB BEAM (5SB15)	CONC SURF TREATMENT (CLASS I)	RIPRAP (CONC (4IN)	RIPRAP (STONE PROTECTION)(18IN)	RAIL (TY T221)(MOD)	RAIL (TY C223)	SEALED EXPANSION JOINT (4 IN)(SEJ-A)	GABIONS (PVC)(GALV)(3FTX3FT)	GABIONS (PVC)(GA LV)(3FTX1 .5FT)	REMOV STR (BRIDGE)	CONTECH PEDESTRIAN BRIDGE
	CY	CY	CY	LF	LF	CY	CY	CY	CY	CY	CY) LF	LF	LF	SY	CY	CY	LF	LF	LF	CY	CY	EA	EA
240			35.8		260	49.0	19.7	49.8	38.4	23.1		₹ 808			558.7	3			184	100				
247	:		38.6		400	52.4	22.7	79.1	109	50.2		l√	1279		949.66				217	110				
224a		89		1308		47.3	74.0	268.4	136	93.3	10.3)	192	2112	1525	46.7	80	392.3		140	114	18		
236a	50	50		334		21.8	13.6	44.4	0	0	12)				1					80	17	1	1
TOTAL	50	139	74.4	1642	660	170.5	130.0	441.7	283.4	166.6	22.3	₹ 808	1471	2112	3033.36	46.7	80	392.3	401	350	194	35	1	1
								VIII.				<u>^</u>	-		· · · · · · · · · · · · · · · · · · ·	<u>^</u>								

SUMMARY OF SIGNING & PAVEMENT MARKINGS QUANTITIES

	509.1	531.03	531.06	531.13	531.14	531.44	531.51	531.57	531.62	531.68	531.69	531.7	531.71	531.86	531.87	531.88	531.89	535.1	535.4	535.7	535.8	535.9
SHT. NO.	METAL BEAM GUARD RAIL	R1-1 STOP (30")(HIGH DENSITY)	R2-1 SPEED LIMIT (24"x30")(HIGH DENSITY)	R3-7 LEFT LANE MUST TURN LEFT OR RIGHT LANE MUST TURN RIGHT	R3-8 LANE-USE CONTROL (30"×30")(HIGH DENSITY)	W16-7 DIAGONAL ARROW SIGN	W11-2 PED CROSSING	9 INCH [229mm] STREET NAME, BLOCK NUMBER (VARIES x9")(HIGH DENSITY)	W16-9 AHEAD	R3-17 BIKE LANE	R3-17aP AHEAD PLAQUE	R3-17bP END PLAQUE	R4-4 BEGIN RIGHT TURN YIELD TO BIKES	R8-3a No PARKING	R7-201P TOW AWAY ZONE PLAQUE	W8-20 WATCH FOR WATER ON ROAD	RS-031 BUS STOP	4 INCH WIDE YELLOW LINE	8 INCH WIDE WHITE LINE	24 INCH WIDE WHITE LINE	RIGHT WHITE ARROW	LEFT WHITE ARROW
	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA
269																		306	36	226	1	
270	725	3	1		1			6		1				1	1			893	424			
271	114	1	1					2		1				2	2	1	1	1064	1080	212		
272			2			1	3		2	3				1	1	1	2	1463	1290	142		
273	76	2	2	1				4		3	2	1	1	4	4			1394	1080		1	1
Total	915	6	6	1	1	1	3	12	2	8	2	1	1	8	8	2	3	5119	3910	579	2	1

CONT. SUMMARY OF SIGNING & PAVEMENT MARKINGS QUANTITIES

	535.12	535.16	535.17	535.18	537.8	544 2001	545 2028	658 2238	658 2259	658 2267	658 2315	658 2316	658 2339	658 2383
SHT. NO.	WORD "ONLY"	STRAIGHT WHITE ARROW BICYCLE FACILITY	BICYCLE RIDER SYMBOL	SHARROW SYMBOL (BICYCLE AND CHEVRON)	TRAFFIC BUTTON (TYPE II A-A)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL)(QUAD)(N)	INSTL DEL ASSM (D-SW)SZ 1(FLX)SRF(BI)	INSTL DEL ASSM (D-SW)SZ (TYC)CTB(BI)	INSTL DEL ASSM (D-SY)SZ 1(FLX)SRF	INSTL OM ASSM (OM-2Y)(WC) GND	INSTL OM ASSM (OM-2Z)(FLX)GND	INSTL OM ASSM (OM-2Y)(WC) GND (BI)	INSTL OM ASSM (OM-3R)(WC) GND
	WORD	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EΑ
269					6						4			
270	1	7	7		13	1		32	6			2	2	1
271		6	6		15		2	6	6			2	2	
272		7	7		21					20			6	
273	2	8	8	3	20	1		5	8	1			4	
Total	3	28	28	3	76	2	2	43	20	21	4	4	14	1

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

	618.1	618.1	620.1	680.2	682.4	684.1	688.2	694.1	694.2	694.4	694.6
SHT. NO.	CONDIUT TRENCHED 1-1/2 INCH PVC	CONDIUT ON POLE 1-1/2 INCH RMC	ELECTRICAL CONDUCTORS (NO 6) (BARE)		INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2IND)	TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (9-CONDUCTO R)	PEDESTRIAN DETECTORS (2 INCH PUSH-BUTT ON)	VIVDS PROCESSOR UNIT	VIVDS CAMERA ASSEMBLY	VIVDS SET-UP SYSTEM	VIVDS COMMUNICATIONS CABLE (COAXIAL)
	LF	LF	LF	EA	EA	LF	EA	EA	EA	EA	LF
275	30	150	120	1	8	550	8	4	4	1	380
Total	1	1	1	2826	2192	21164	159	5730	2238	963	686

Δ	8/28/2012	ADDENDUM *4		SDB
NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		



AECOM TECHNICAL SERVICES, INC.

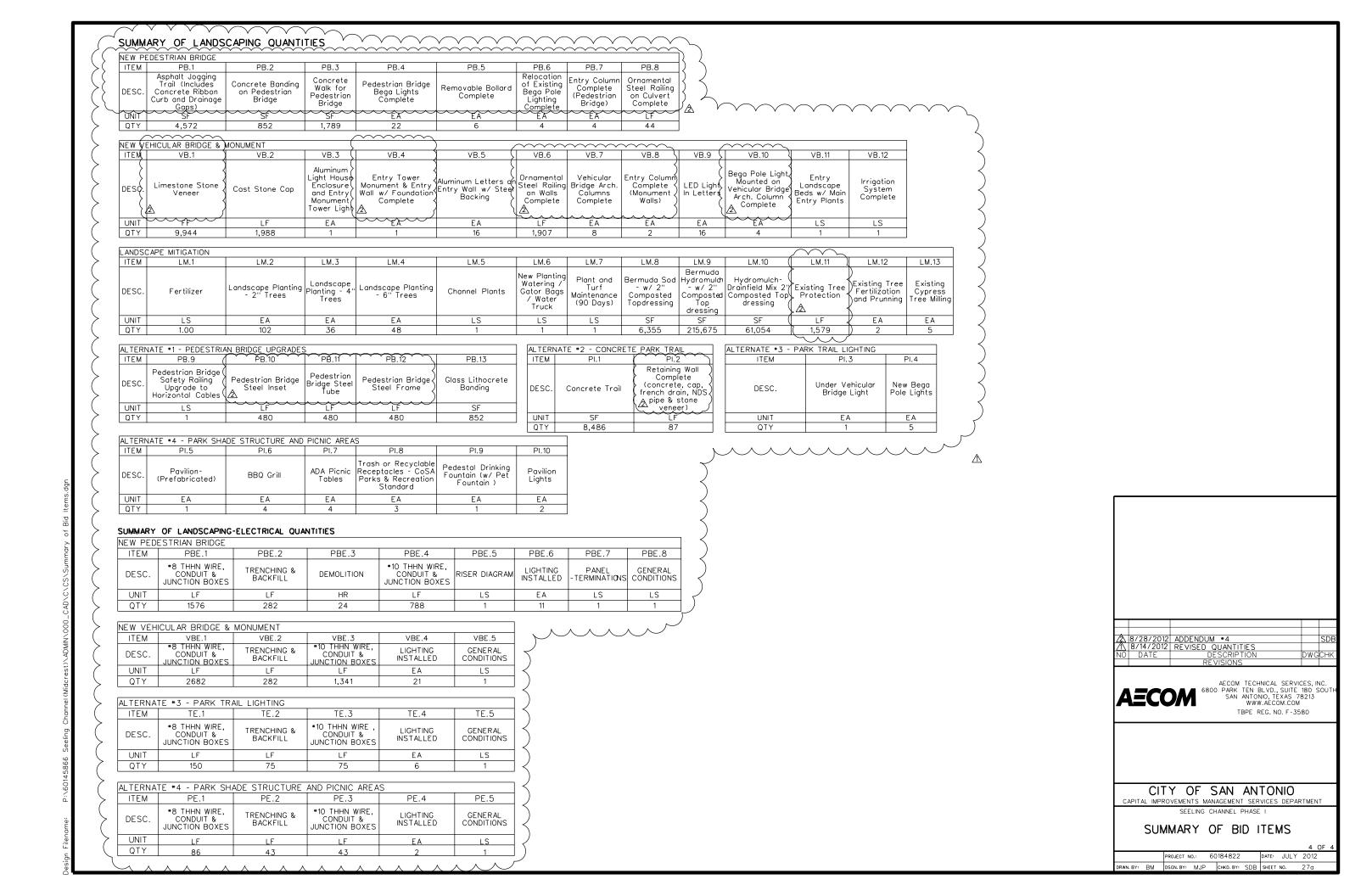
AECOM 6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213
WWW.AECOM.COM TBPE REG. NO. F-3580

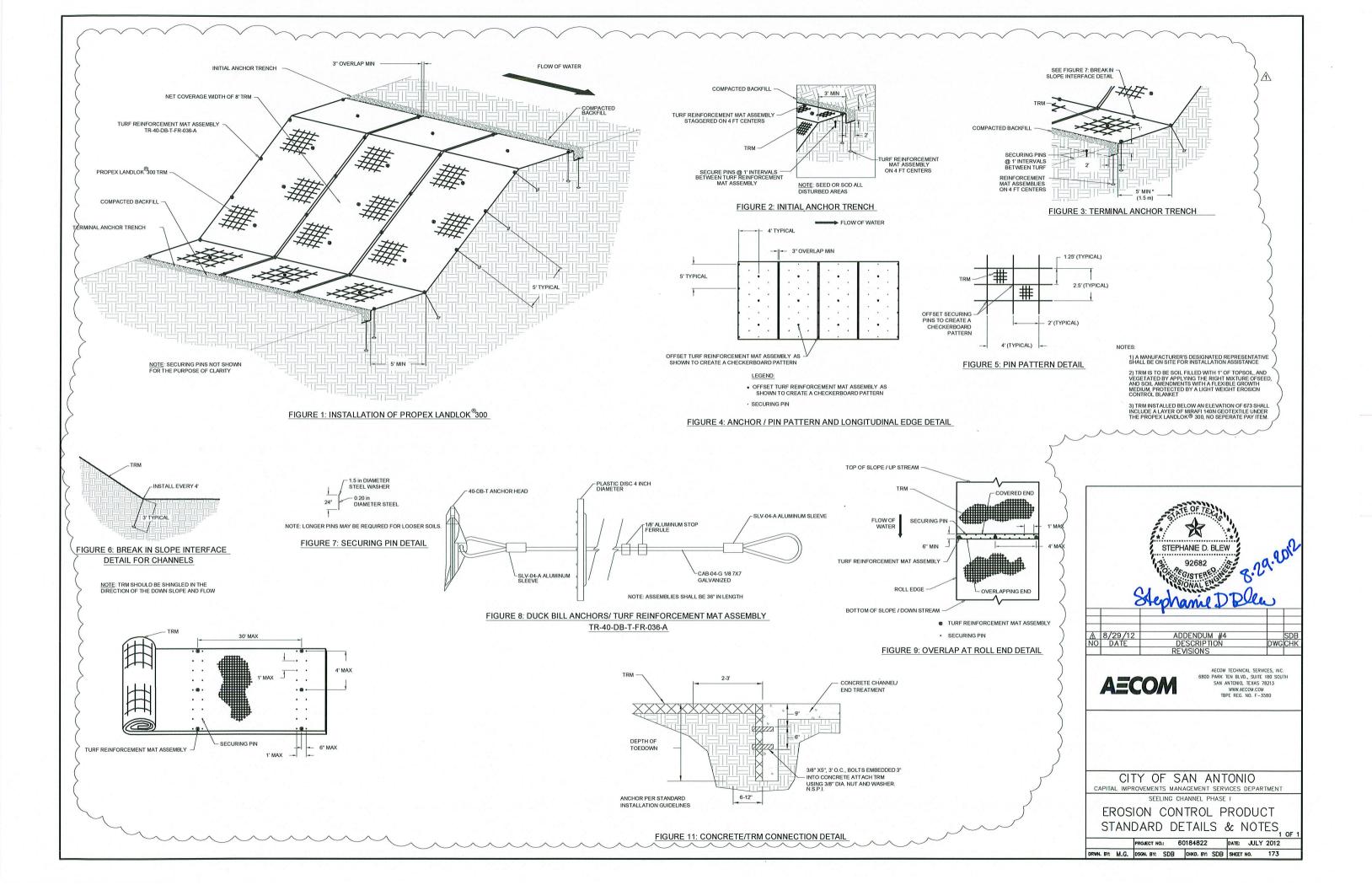
CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

SUMMARY OF BID ITEMS





					SUMMARY (OF ESTIMA	IED QUANT	ITIES - S.	JOSEPHIN	F-IOBIN D	K						
	0400-2005	0416-2002	0420-2003	0420-2004	0420-2029	0420-2033	0420-2034	420	0425-2016	0425-2017	0428-2001	0432-2001	0432-2021	0450-2203	0454-2001	0459-2015	0459-2017
	CEM	DRILL	CL C	CL C	CL S CONC	CL S CONC	CL S CONC	CL C CONC	PRESTR	PRESTR	CONC	RIPRAP	RIPRAP	RAIL	SEALED	GABIONS	GABIONS
DESCRIPTION	STABIL	SHAFT	CONC	CONC	(SLAB)	(APPR	(BRIDGE	(MONUMENT)	CONC SLAB	CONC SLAB	SURF	(CONC)	(STONE	(TY 221)	EXP JOINT	(PVC) (GALV)	(PVC) (GAL
DESCRIPTION	BKFL	(24 IN)	(ABUT)	(BENT)		SLAB)	SDWLK)		BEAM	BEAM	TREAT	(4 IN)	PROTECTION)	(MOD)	(4 IN)	(3FT × 3FT)	(3FT × 1.5
					\sim		\sim	\sim	(4SB15)	(5SB15)	(CLASS 1)		(18 IN)		(SEJ-A)		
	CY	LF	CY	CY	CY	CY	CY	CY	LF	LF	SY	CY	CY	LF	LF	CY	CY
PRESTR CONC BEAM UNIT (SPANS 1-4)					(268.4)		93.3	(10.3)	192.00	2,112.00	1,525 <			347.8	140	114	18
ABUTMENTS 1 & 5	89	612	47.3		()	136.0	()	()			> 3	46.7	80.0	44.5			
BENTS (2 - 4)		696		74.0	7		> >	> >			7						
TOTAL	89	1,308	47.3	74.0	268.4	136.0	93.3	10.3	192.00	2,112.00	(1,525)	46.7	80.0	392.3	1 40	114	18
	•						-	-	•	•		•	•				

1	08/12	REVISED QTY	HM	WRB
10	DATE	DESCRIPTION	DWG	СНК
		REVISIONS		

AECOM

AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUIITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG. NO. F-3580

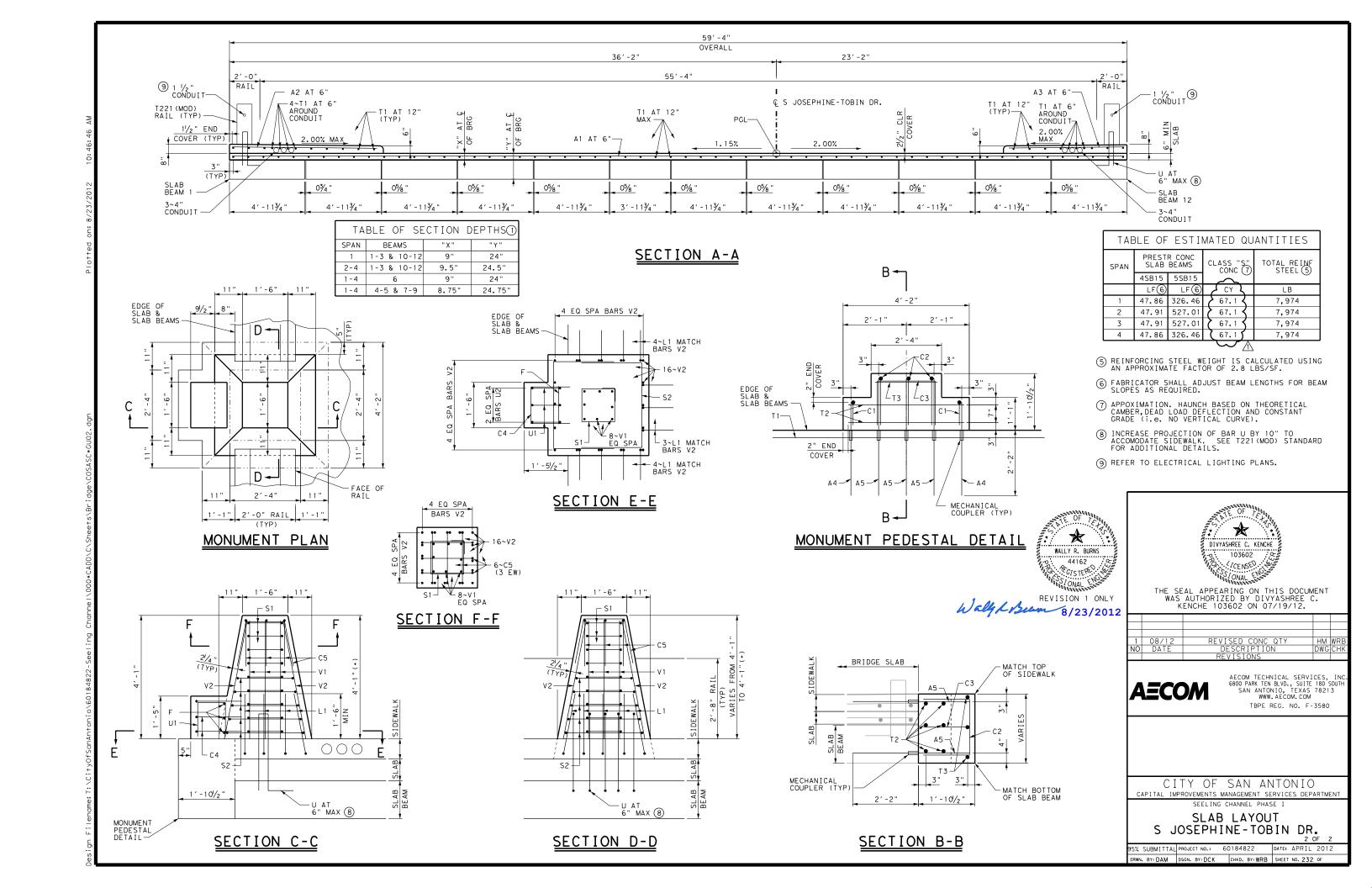
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

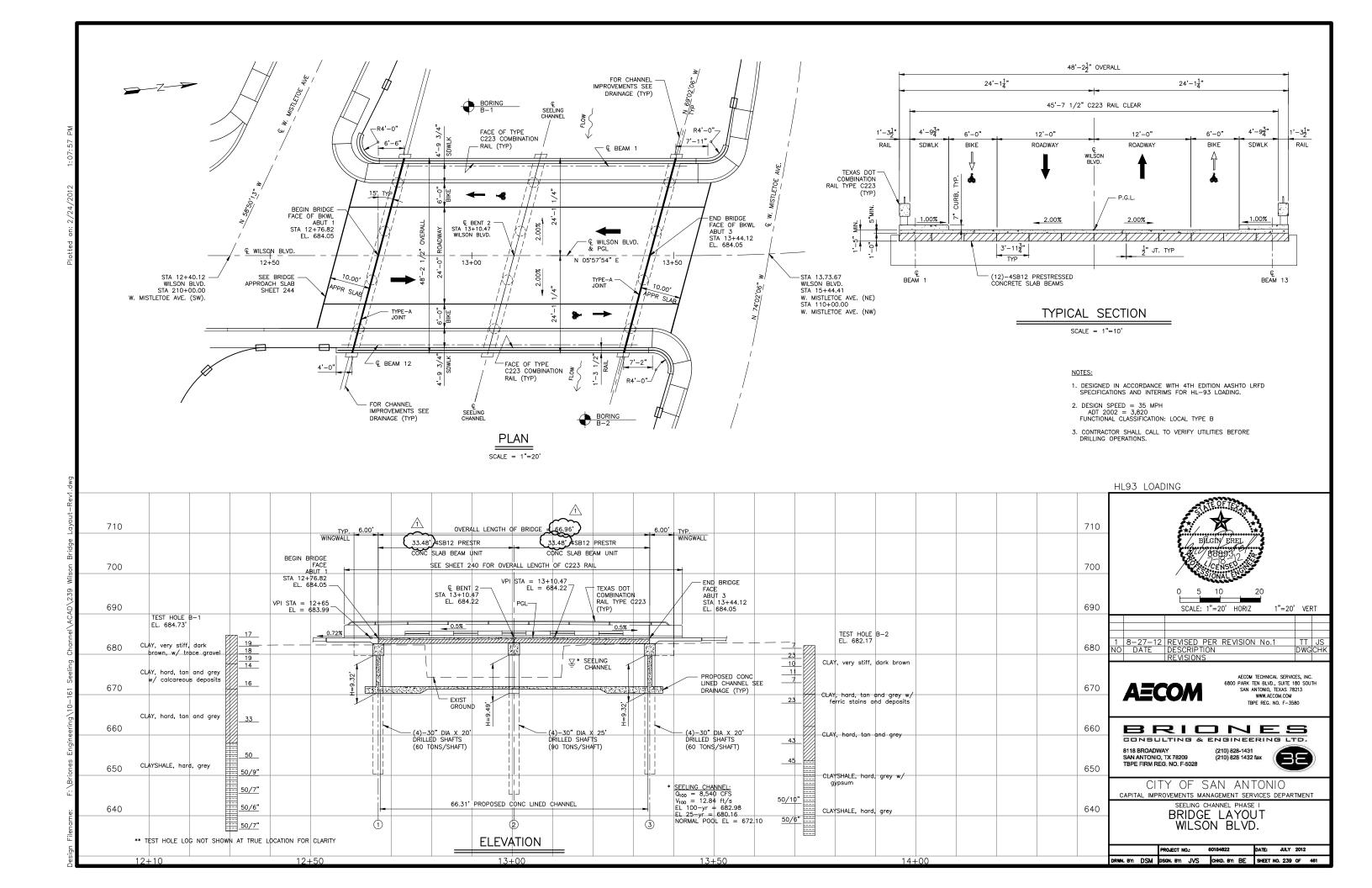
SEELING CHANNEL PHASE I

QUANTITY SUMMARY
S JOSEPHINE-TOBIN DR.

95% SUBMITTAL PROJECT NO.: 60184822 DATE: APRIL 2012

DRWN. BY: DAM DSGN. BY: DCK CHKD. BY: WRB SHEET NO. 22440F





SUMMARY OF ESTIMATE	D QUANT	TITIES									
DID ITEM 0.	416 2003	420 2003	420 2004	420 2029	420 2033	420 2034	425 2014	428 2001	450 2166	400 2020	454 2001
BID ITEM & DESCRIPTION	DRILLED SHAFTS	CLASS CONC		REINF. CONCRETE SLAB	REINF. CONCRETE APPROACH	REINF. CONCRETE SIDEWALK	PRESTRESSED CONCRETE SLAB BEAMS	CONCRETE SURFACE TREATMENT	RAILING (TYPE	CEMENT STABILIZED SAND	EXPANSION JOINT (TYPE A)
BRIDGE ELEMENT	(30")	ABUT	BENT	38.6	SLAB	SIDEWALK	(4SB12)	(CLASS II)	C223)	371112	(111 2 %)
ELEMENT	LF	CY	CY	CY	CY	CY	LF	SY	LF	CY	LF
2 - ABUTMENTS	160	49.00						_			
1 - INTERIOR BENTS	100		19.74			(1)					
2 - 33.65' PRESTRESSED CONC SLAB BEAM UNIT				49.8		23.1	807.60	(558.7)	184.33		
					~~			٠			
MISCELLANEOUS					38.4	~~~		~~~		35.8	100
TOTAL	260	49.00	19.74	49.8	38.4	23.1	807.60	(558.7)	184.33	35.8	100*
					\triangle	\triangle			* QUANT	TTY BASED ON 50	LF PER JOINT.

CONTROL ELEVATION	IS		
LOCATION	ABUT 1	BENT 2	ABUT 3
TOP OF CAP (TYP. FULL LENGTH)	682.38	682.54	682.38
TOP OF DRILLED SHAFT (TYP. FULL LENGTH)	670.31	670.31	670.31

HL93 LOADING



1	8-27-12	REVISED PER REVISION No.1	TT	JS
NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		



AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG. NO. F-3580



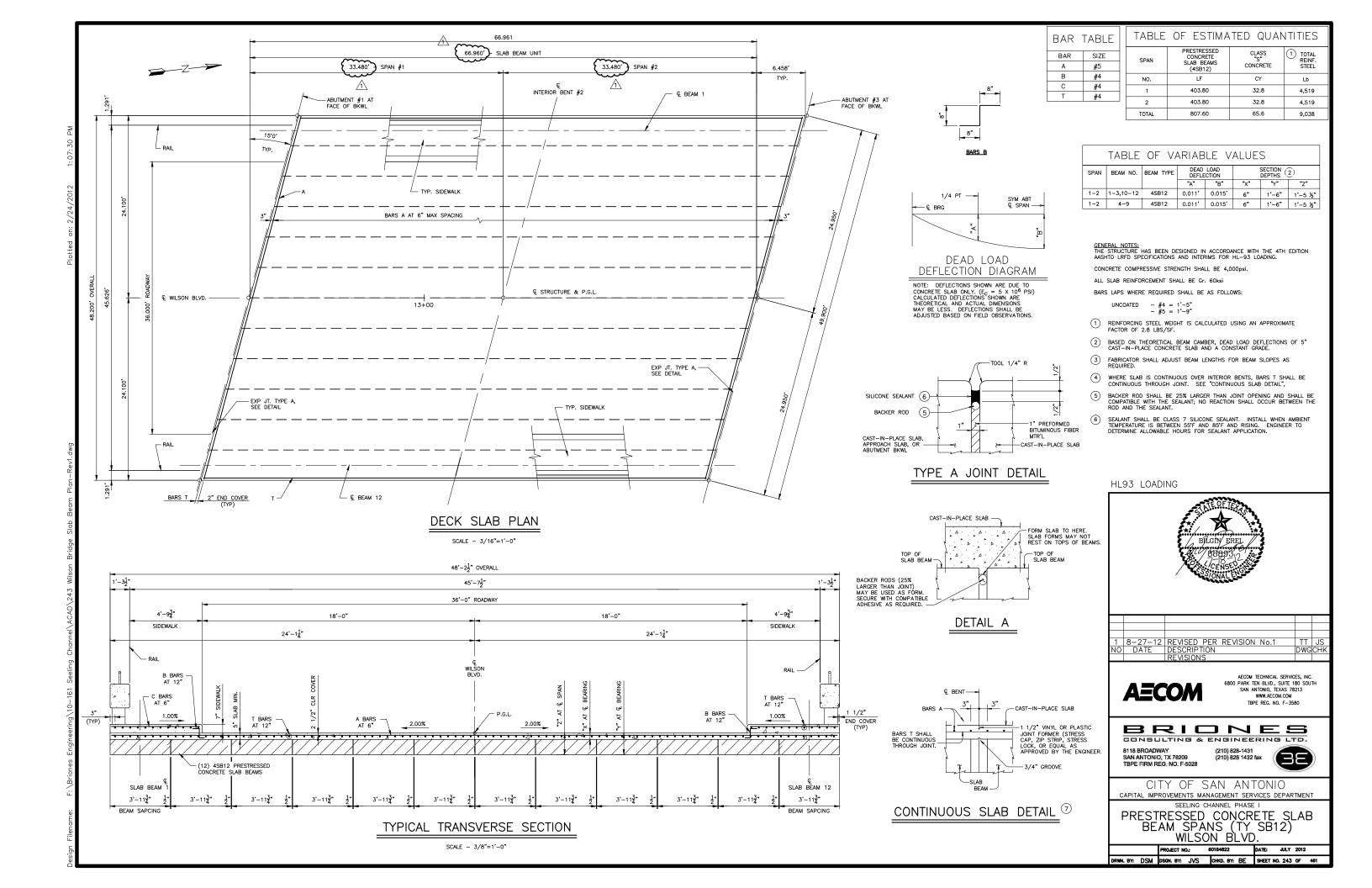
8118 BROADWAY SAN ANTONIO, TX 78209 TBPE FIRM REG. NO. F-5028 (210) 828-1431 (210) 828 1432 fax

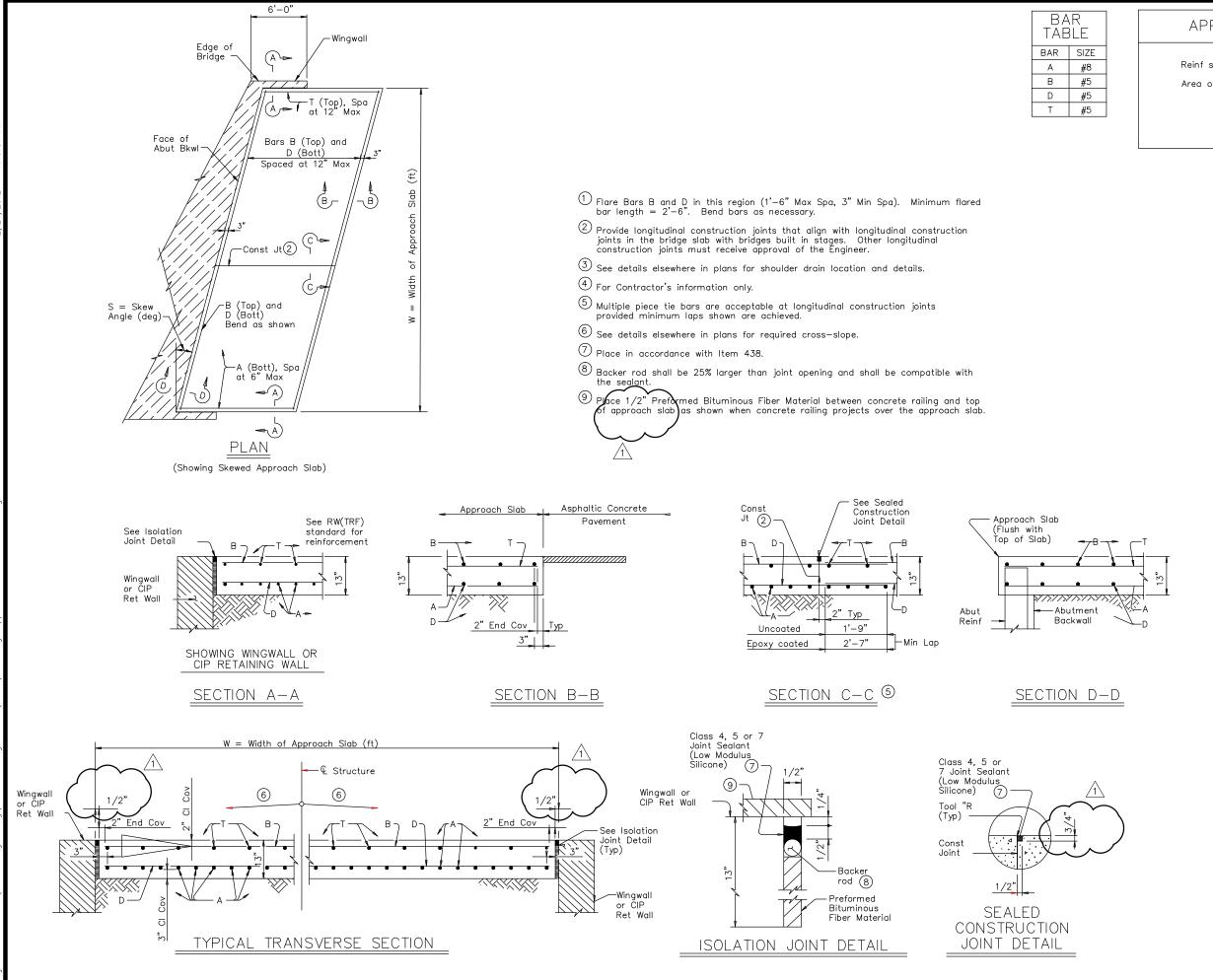


CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I
SUMMARY OF QUANTITIES
WILSON BLVD.

	PROJECT NO.:	60184822	DATE:	JULY 2012	
DRWN, BY: DSM	DSGN. BY: JVS	снко, ву: ВЕ	SHEET N	0. 240 OF	461





APPROXIMATE QUANTITIES 4

Reinf steel weight = 8.5 Lbs/SF of Approach Slab

Area of Appr Slab = 498 (SF)

W = Width of Approach Slab (ft)

S = Skew Angle (deg)

GENERAL NOTES:
Construct approach slab in accordance with Item 420.

Concrete shall be Class "S" with a minimum compressive strength of 4,000 psi.

All reinforcing steel shall be Grade 60. Construct the subgrade or subbase from the bridge for a minimum distance of 100 feet prior to the approach slab, unless otherwise indicated on the plans.

Compact and finish the subgrade or foundation for the approach slab to the typical cross—section and to the lines and grades shown on the plans.

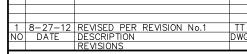
Cure for 4 days using water or membrane curing per Item 307.

Sealant, backer rod and preformed bituminous fiber material is subsidiary to approach slab

Provide a 1" bondbreaker (asphaltic concrete pavement or asphalt stabilized base) between the approach slab and cement stabilized backfill or cement treated base. Other bondbreakers may be used if approved by the Engineer.

HL93 LOADING







AFCOM TECHNICAL SERVICES INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH
SAN ANTONIO, TEXAS 78213

WWW.AECOM.COM TBPE REG. NO. F-3580

BRIDNES CONSULTING & ENGINEERING LTD.

8118 BROADWAY SAN ANTONIO, TX 78209 TBPE FIRM REG. NO. F-5028 (210) 828-1431 (210) 828 1432 fax

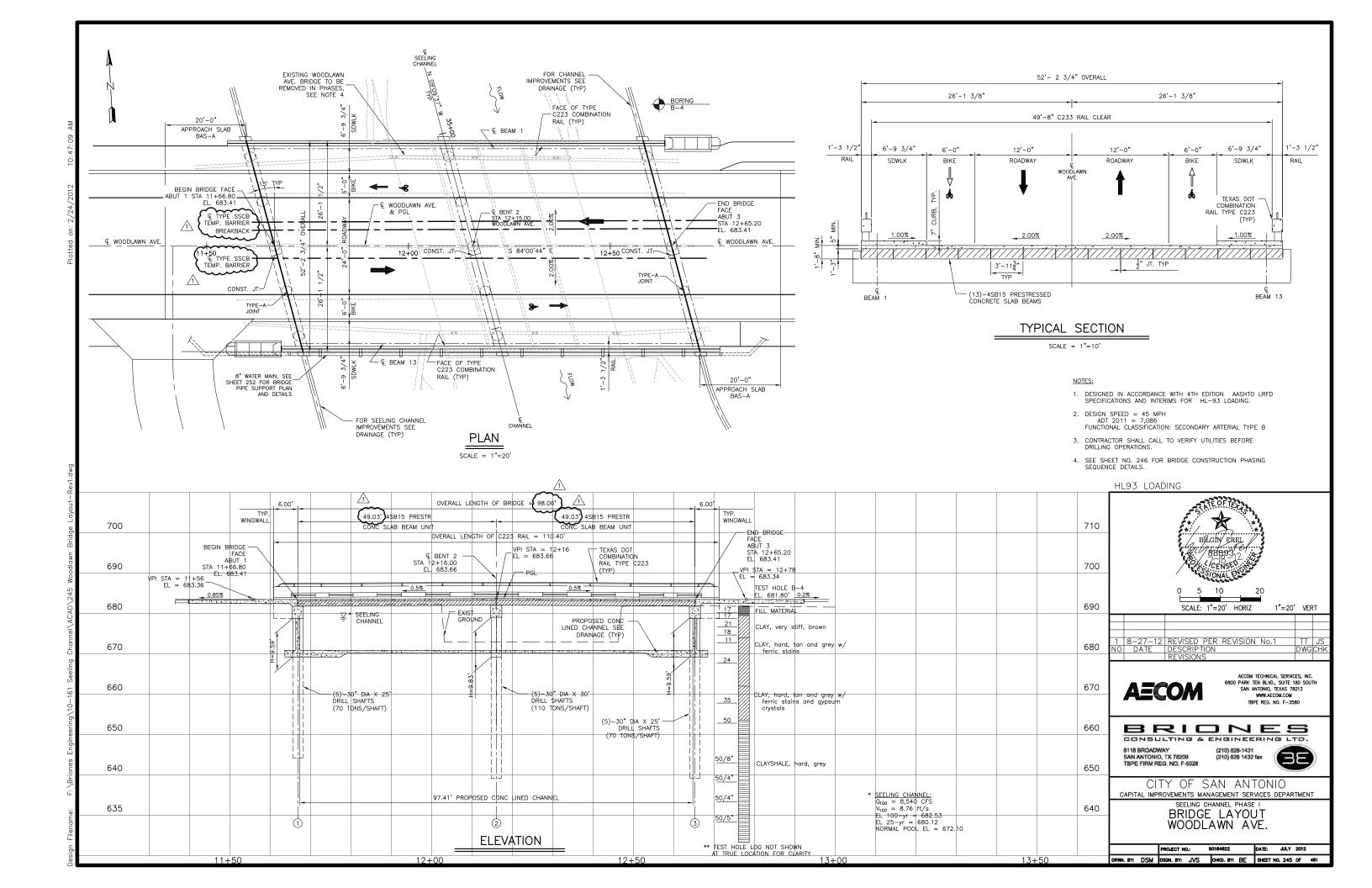


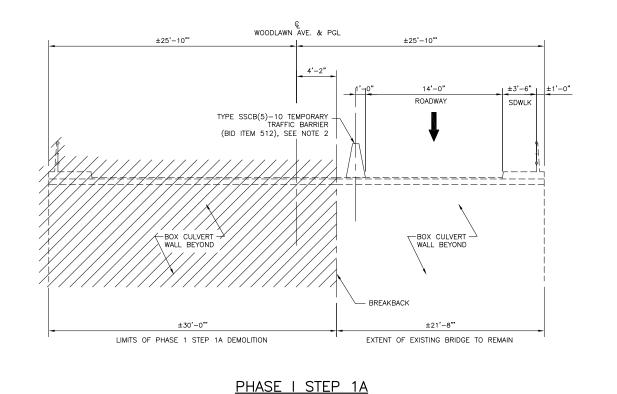
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

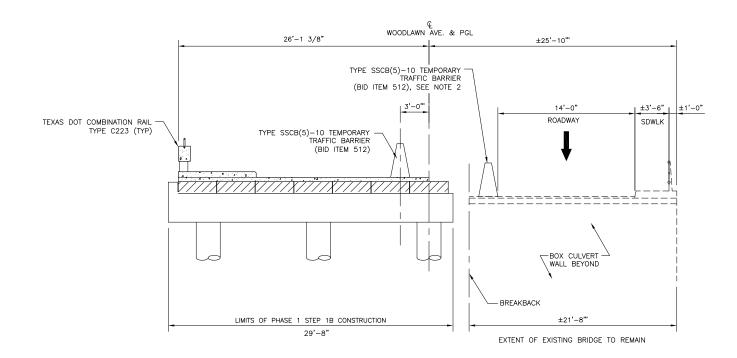
SEELING CHANNEL PHASE

BRIDGE APPROACH SLAB ASPHALTIC CONCRETE PAVEMENT WILSON BLVD.

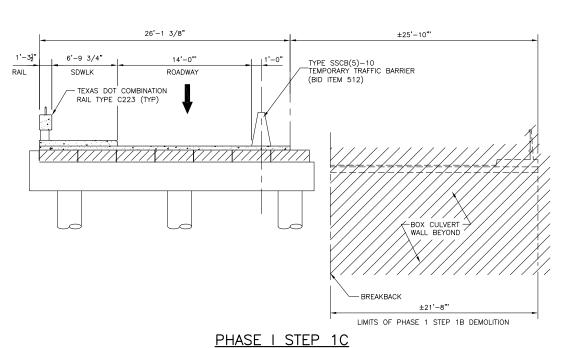
DRWN. BY: DSM DSGN. BY: JVS CHKD. BY: BE SHEET NO. 244 OF 461

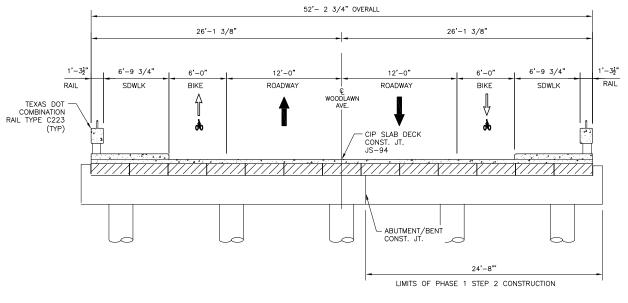






PHASE I STEP 1B



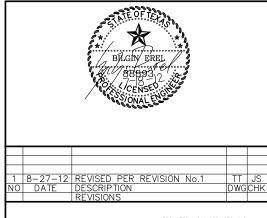


PHASE I STEP 2



NOTES:

- COORDINATE BRIDGE CONSTRUCTION PHASING AND SEQUENCE WITH TRAFFIC CONTROL PLAN SHEETS.
- 2. TEMPORARY TRAFFIC BARRIER TO BE LATERALLY RESTRAINED PRIOR TO PHASE 1 STEP 1A DEMOLITION, PER DETAILS ON SSCB(5)-10.



AECOM

AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG. NO. F-3580

BRIDNES CONSULTING & ENGINEERING LTD. 8118 BROADWAY (210) 828-1431

8118 BROADWAY SAN ANTONIO, TX 78209 TBPE FIRM REG. NO. F-5028

(210) 828 1432 fax

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

BRIDGE CONSTRUCTION SEQUENCE WOODLAWN AVE.

PROJECT NO.: 60184822 DATE: JULY 2012

DRWN. BY: DSM DSGN. BY: JVS CHKD. BY: BE SHEET NO. 246 OF 461

	416 2003	420 2003	420 2004	420 2029	420 2033	420 2034	425 2016	428 2001	450 2166	400 2020	454 2001
BID ITEM & DESCRIPTION	DRILLED SHAFTS			REINF. CONCRETE	REINF. CONCRETE	REINF. CONCRETE	PRESTRESSED CONCRETE SLAB BEAMS	CONCRETE SURFACE TREATMENT	RAILING (TYPE	CEMENT STABILIZED	EXPANSIOI JOINT (TYPE A)
	(30)	ABUT	BENT		SLAB	O O D D I I I I I I I I I I I I I I I I	(4SB15)	(CLASS II)	(223)	B) (O) (I) (E)	(111 2 7)
	LF	CY	CY	CY	CY	CY	LF	SY	LF	CY	LF
	250	52.42				,					
	150		22.65								
BEAM UNIT				79.1		50.2	1,279.15	949.66	216.78		
					109.0	~		~		38.6	110
	400	52.42	22.65	79.1	109.0	50.2	1,279.15	949.66	216.78	38.6	110*
	DESCRIPTION	DESCRIPTION DRILLED SHAFTS (30") LF 250 150 BEAM UNIT	DESCRIPTION DRILLED SHAFTS (30") LF CY 250 52.42 150 BEAM UNIT	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION DRILLED CONCRETE SHAFTS (30") ABUT BENT CONCRETE SLAB BEAMS (4SB15) LF CY CY CY CY CY CY CY CY LF SY LF CY 250 52.42 BEAM UNIT FREINF. CONCRETE SIDEWALK SIDEWALK (4SB15) TO CONCRETE SUBFACE TREATMENT (CLASS II) TO CONCRETE SUBFACE TREATMENT (CLASS II) TO CONCRETE SIDEWALK (4SB15) TO CO

CONTROL ELEVATIONS			
LOCATION	ABUT 1	BENT 2	ABUT 3
TOP OF CAP (TYP. FULL LENGTH)	681.41	681.65	681.41
TOP OF DRILLED SHAFT (TYP. FULL LENGTH)	669.17	669.17	669.17

HL93 LOADING



_				
1	8-27-12	REVISED PER REVISION No.1	TT	JS
NO	DATE	DESCRIPTION	DWG	CHK
		REVISIONS		
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AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONIO, TEXAS 78213 WWW.AECOM.COM TBPE REG. NO. F-3580



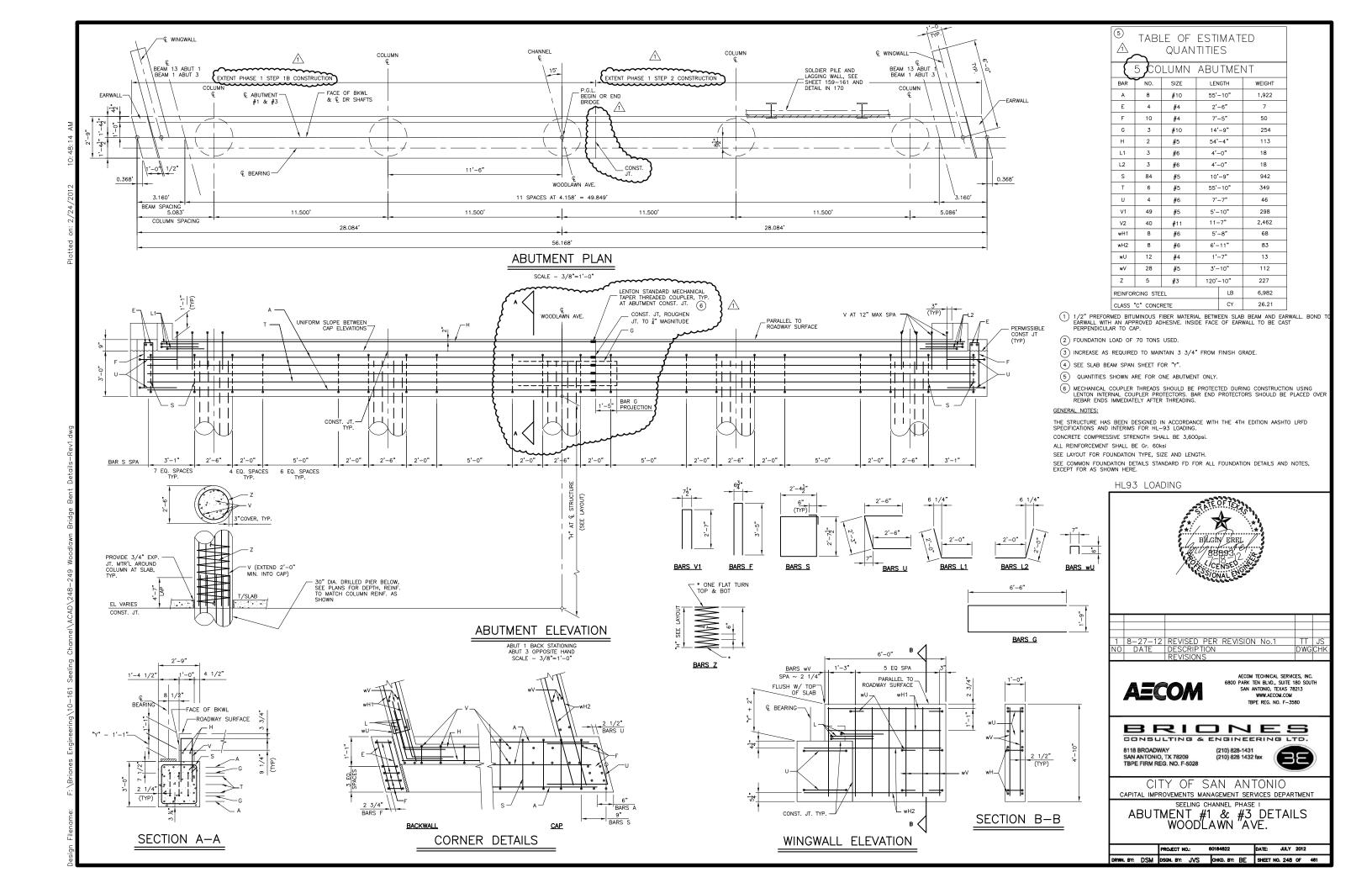
8118 BROADWAY (210) 828-1431 SAN ANTONIO, TX 78209 (210) 828 1432 fax TBPE FIRM REG. NO. F-5028

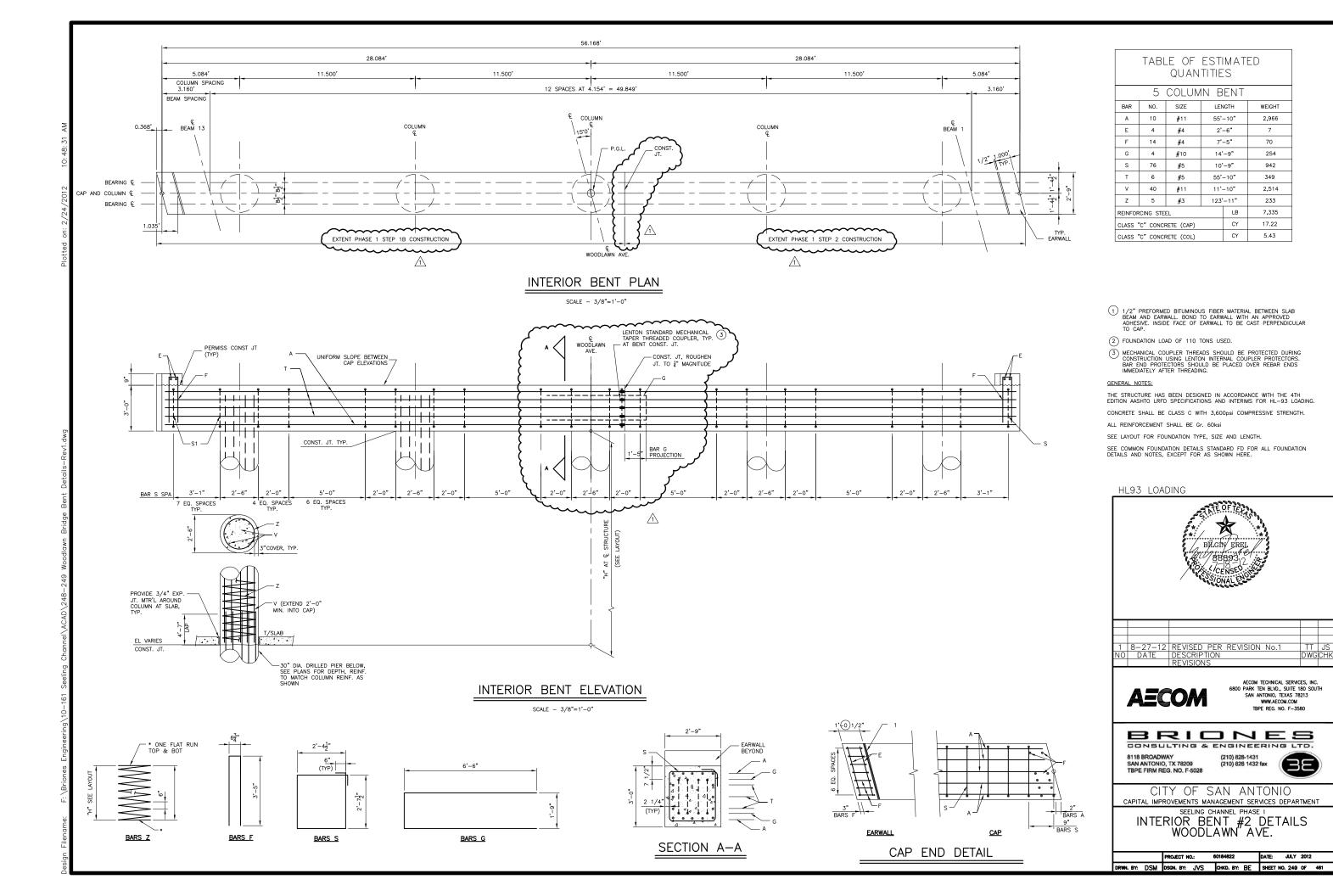


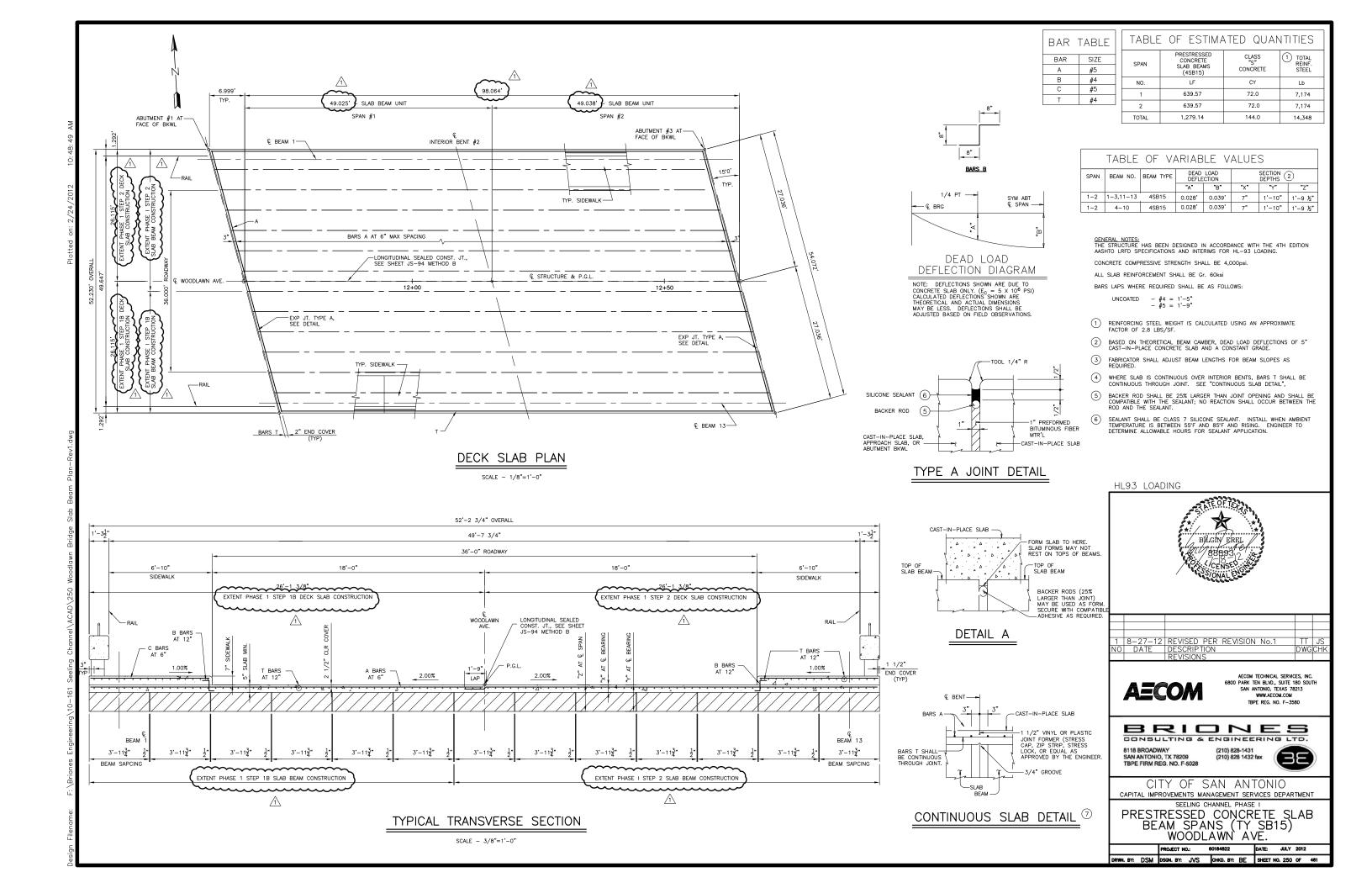
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

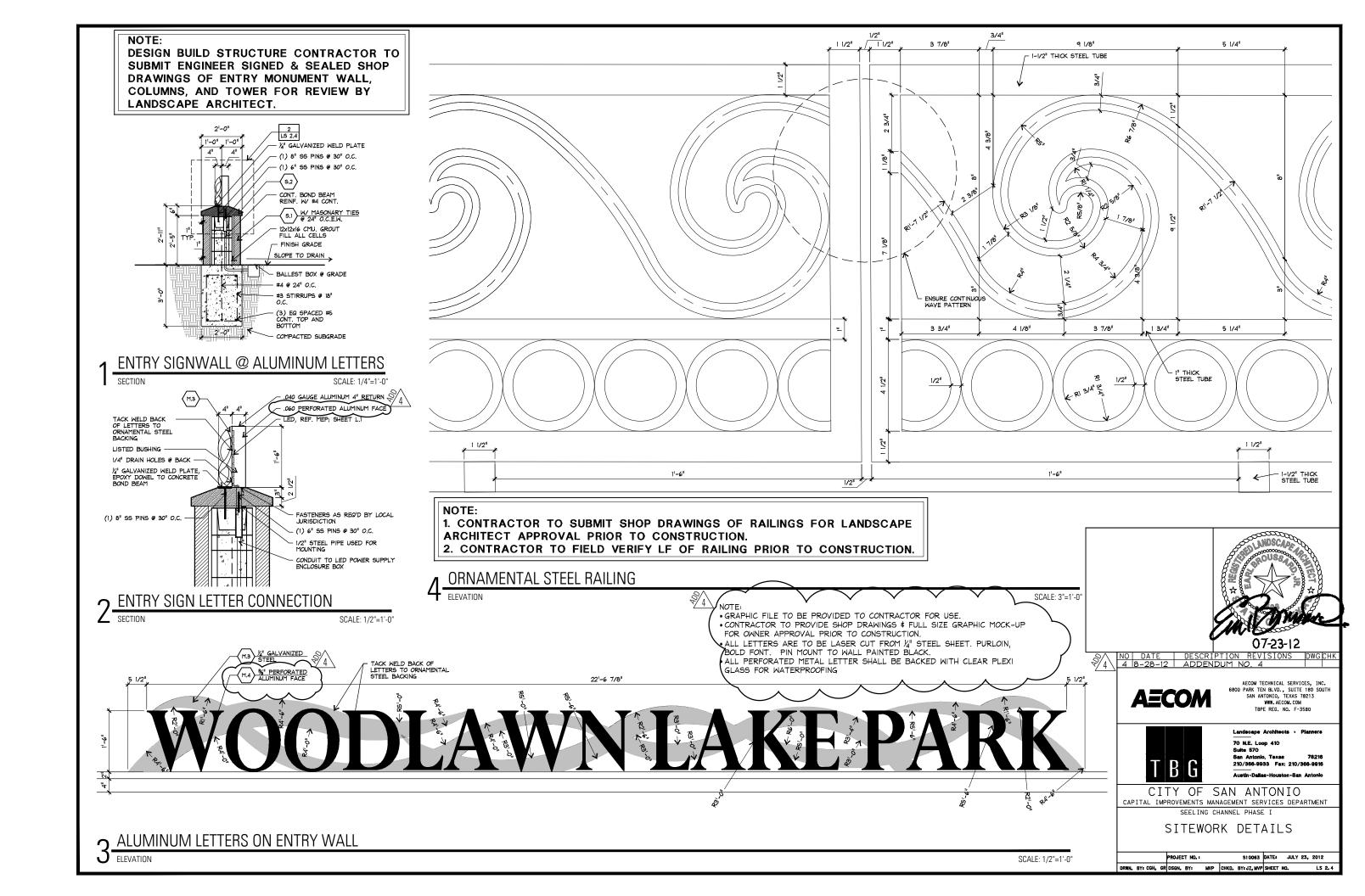
SEELING CHANNEL PHASE I
SUMMARY OF QUANTITIES
WOODLAWN AVE.

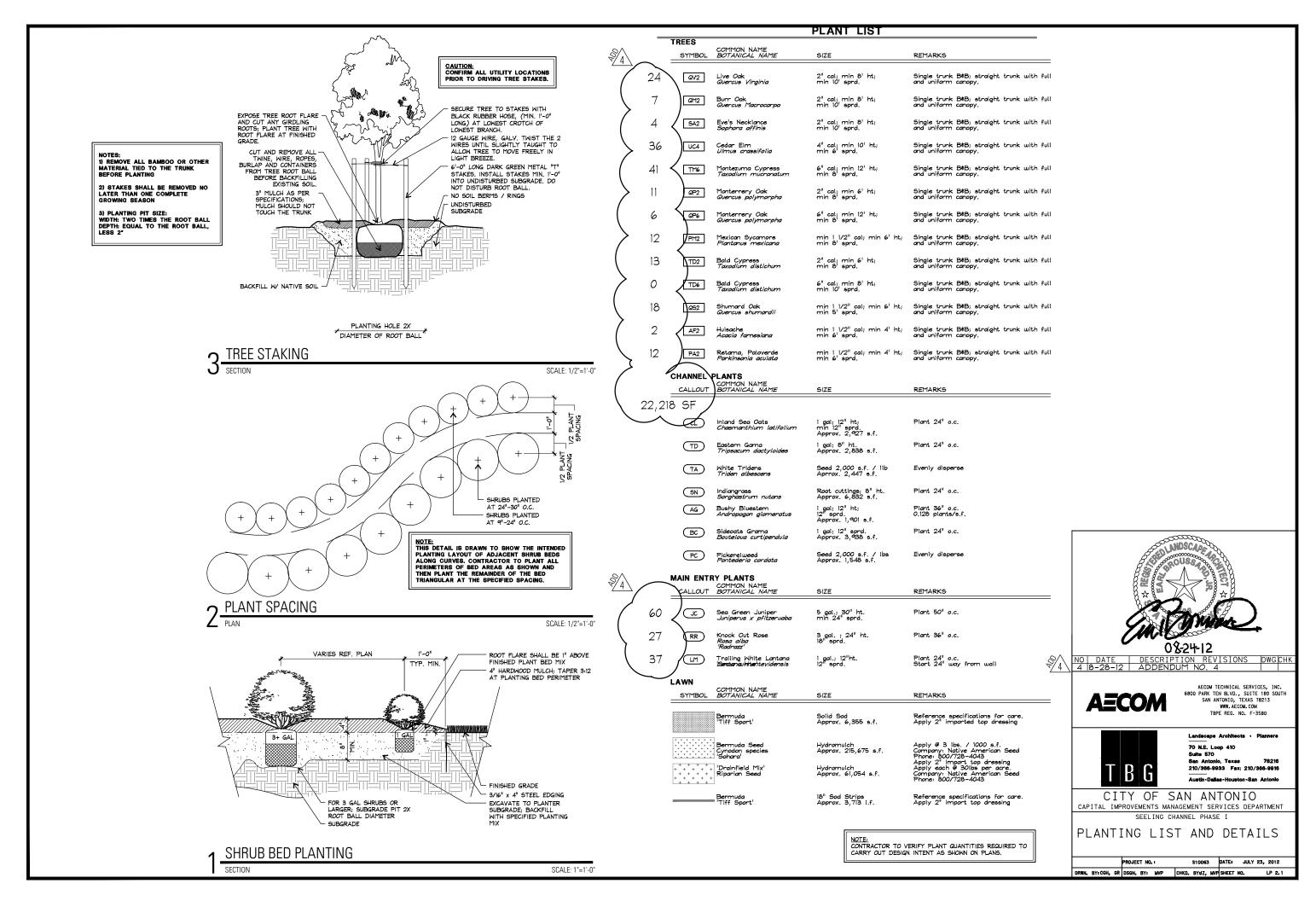
	PROJECT NO.:	60184822	DATE:	JULY 2012	
DRWN. BY: DSM	DSGN. BY: JVS	CHKD, BY: BE	SHEET NO	. 247 OF	461



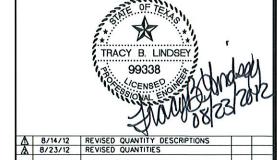








ITEM NO.	SANITARY SEWER REPLACEMENT PROJECT DESCRIPTION	UNIT	TOTAL
100	Mobilization	LS	1
101	Preparation of R.O.W.	LS	1
550	Trench Excavation Safety Protection	LF	2,255
848	8" PVC Sanitary Sewer Line (14' - 18')	LF	272
848	10" PVC Sanitary Sewer Line (10' - 14')	LF	67
848	10" PVC Sanitary Sewer Line (10 - 14)	LF	125
848	15" PVC Sanitary Sewer Line (14 - 10)	LF	13
848	15" PVC Sanitary Sewer Line (0 - 10)	LF	234
848	15" PVC Sanitary Sewer Line (10 - 14)	LF	286
848	18" PVC Sanitary Sewer (6' - 10')	LF	10
848	21" PVC Sanitary Sewer (6 - 16)	LF	436
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (6' - 10')	LF	40
		LF	894
848	30" Fiberglass Reinforced Gravity Sanitary Sewer (14' - 18')		
851	Adjust Existing Manholes	EA	894
850	Sanitary Sewer Structures - 60"	EA	(\circ)
850	Sanitary Sewer Structures - 72"	EA	6
850	Sanitary Sewer Structures - 96" \/1\	EA	
852	48" Mannole (0" - 6" deep)	EA	13
852	60" Manhole (0' - 6' deep)	EA	1
852	48" Manhole Extra Depth	VF	103
852	60" Manhole Extra Depth	VF	10
854 (Sanitary Sewer Laterals //1\	LF	118
854	Sanitary Sewer Cleanout	EA	6
855	Reconstruct Existing Manhole	EA	2
856	Jacking, Boring or Tunneling (48")	LF	122
856	Carrier Pipe - 30" Fiberglass Reinforced Gravity Sewer Pipe	LF	122
856	Casing - 48" Steel Pipe	LF	122
858	Concrete Encasement	CY	19
860	Vertical Stacks	VF	20
862	Abandonment of Sanitary Sewers (15" or larger)	LF	1,463
864	Bypass Pumping	LS	1
866	8" - 15" Sewer Main Television Inspection	LF	984
866	18" - 21" Sewer Main Television Inspection	LF	446
866	24" - 30" Sewer Main Television Inspection	LF	934
866	8" - 15" Sewer Main Cleaning & Pre-Televising (Existing Mains)	LF	226
866	18" - 21" Sewer Main Cleaning & Pre-Televising (Existing Mains)	LF	1,652



Δ	8/14/12	REVISED QUANTITY DESCRIPTIONS		
A	8/23/12	REVISED QUANTITIES		
NO	DATE	DESCRIPTION	DWG	СН
		REVISIONS		



AECOM TECHNICAL SERVICES, INC. 6800 PARK TEN BLVD., SUITE 180 SOUTH SAN ANTONO, TEXAS 78213 WWW.AECOM.COM TBPE REG. NO. F-3580



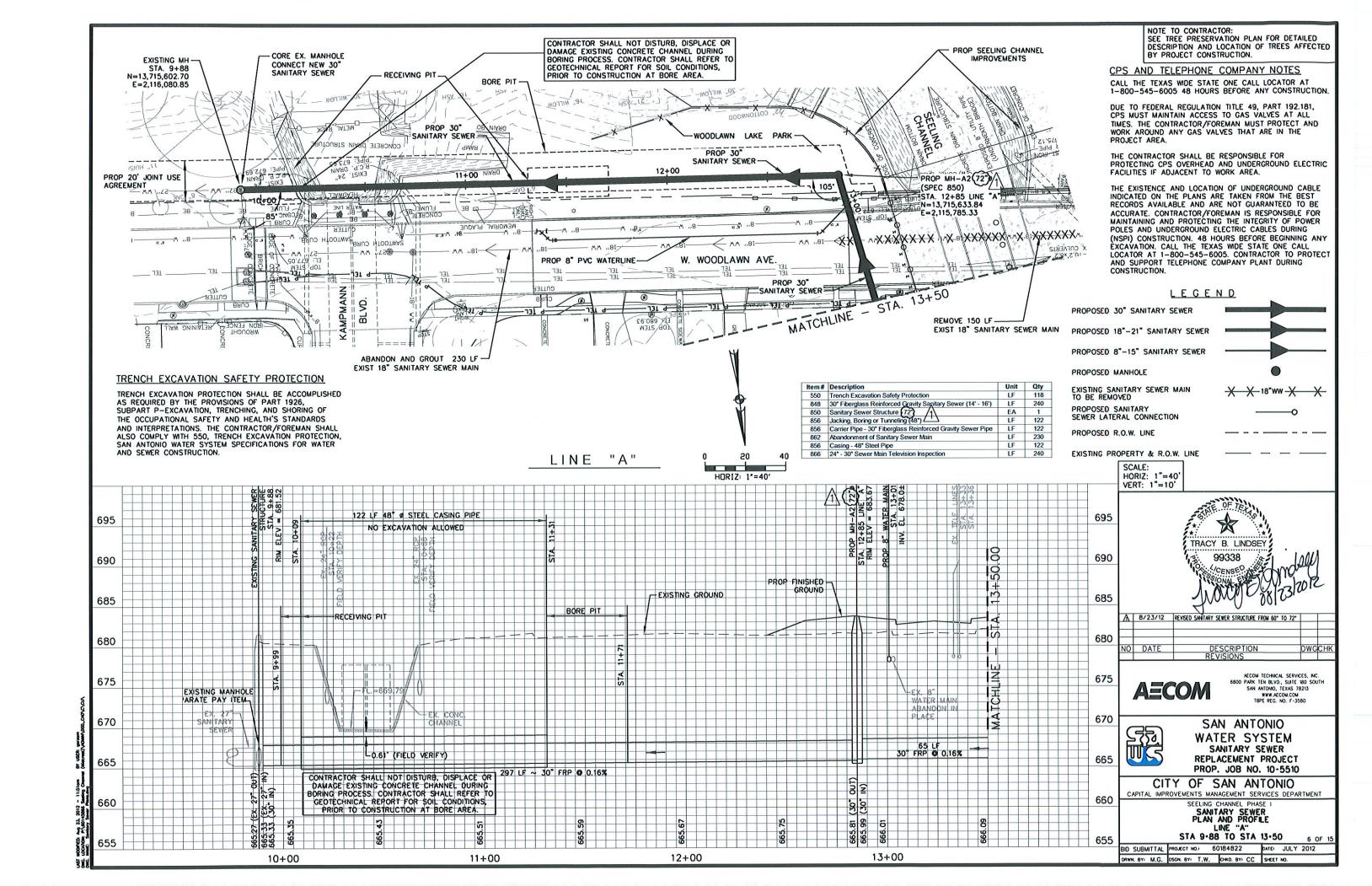
SAN ANTONIO
WATER SYSTEM
SANITARY SEWER
REPLACEMENT PROJECT
PROP. JOB NO. 10-5510

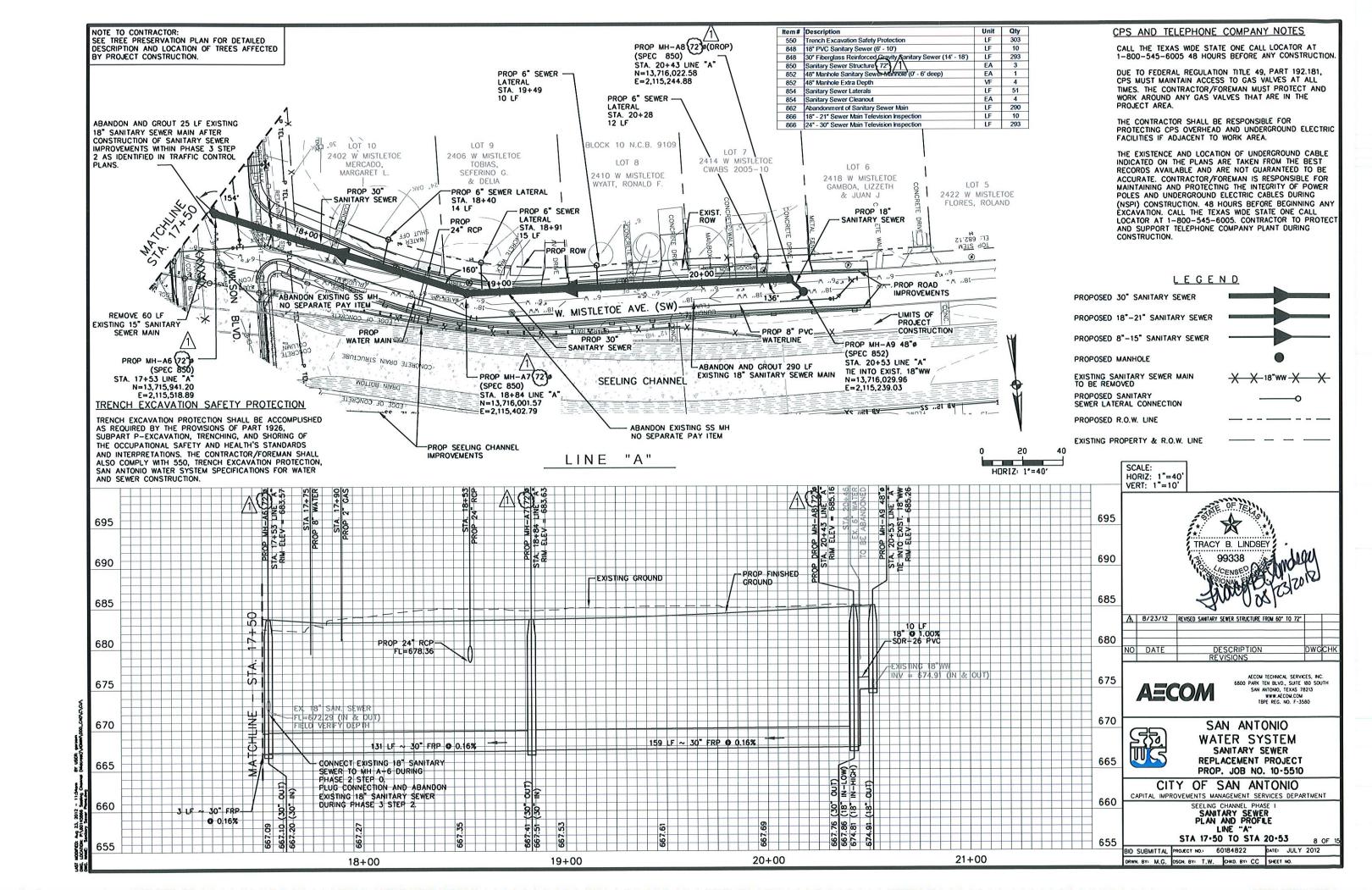
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

SEELING CHANNEL PHASE I

SUMMARY QUANTITY SHEET

5 OF 15
BID SUBMITTAL PROJECT NO.1 60184822 DATE: JULY 2012
DRWN. BYI M.G., OSGN. BYI T.W., GHO. BYI CC SHEET NO.







CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES (CIMS DEPARTMENT)
PROJECT: SEELING CHANNEL IMPROVEMENTS - PHASE I

ADDENDUM NO. 4 – Acknowledgement Form

RECEIPT OF ADDENDUM NUMBER(S) 4 IS HEREBY A	CKNOWLEDGED FOR PLANS AND
SPECIFICATIONS FOR CONSTRUCTION OF Seeling Chan	nel Improvements - Phase I FOR
WHICH BIDS WILL BE OPENED ON SEPTEMBER 11.	2012
THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETPACKAGE.	TURNED WITH THE BID
Company Name:	
Address:	
City/State/Zip Code:	
Date:	
Signature	
Print Name/Title	